#### Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results fule extension .rup) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein. Archive database (UniPARC) at:

http://www.pir.uniprot.org/database/archive.shtml

If you have any questions regarding this information or your results, please contact any STIC searcher.

When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.

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OM protein - protein search, using sw model

Run on:

April 18, 2005, 19:35:54; Search time 13:5116 Seconds (without alignments) 49.847 Million cell updates/sec

Title: Perfect score:

1 gywggyw 7 Scoring table: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416 segs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		de			SUMMARIES	
Result No.	Score	Query	Length	DB	ID	Description
	54	100.0	83	7	E69903	hypothetical prote
7	. 54	100.0	187	~	G83047	hypothetical prote
e	49	7.06	273	~	E95268	
4	45	83.3	68	~	A11956	hypothetical prote
	45	83.3	271	7	F83188	phosphatidate cyti
9	45	83.3	271	7	JC4832	
7	42	77.8	563	7	AH2975	hypothetical prote
80	42	77.8	563	~	C98307	ophA protein [impo
6	42	77.8	760	7	T41644	
10	41	75.9	280	~	F81984	
11	41	75.9	280	7	H81038	conserved hypothet
12	41	75.9	312	~	C70475	cytochrome c bioge
13	41	75.9	357	-	G69290	probable hexosyltr
14	41	75.9	400	٦	F69142	probable hexosyltr
15	41	75.9	536	~	G95389	probable ABC trans
16	41	75.9	664	~	B75532	cytochrome c-type
17	41	75.9	666	7	F72453	
18	40	74.1	211	7	808522	probable sodium-de
19	40	74.1	448	~	T23263	hypothetical prote .
20	40	74.1	545	~	A84432	probable peptide/a
21	40	74.1	568	~	E96648	hypothetical prote
22	40	74.1	585	~	C84432	histidine transpor
23	40	74.1	586	~	S46236	histidine transpor
24	40	74.1	602	٦	S38111	amino acid transpo
25	40	74.1	1039	~	T28905	hypothetical prote
56	40	74.1	1827	-	מתאמ	sucrose alpha-gluc
27	40	74.1	1841	~	T10799	sucrose alpha-gluc
28	39	72.2	142	7	C34903	Ig heavy chain pre
29	39	72.2	276	7	A49853	ammonia monooxygen

hypothetical prote	xylene monooxygena	probable secreted	probable alpha-amy	RNA-dependent RNA	glutathione S-conj	ABC transporter At	gag-pol-like fusio	RNA1 polyprotein -	Ig heavy chain DJ	Ig heavy chain V r	<ol> <li>subtilis YhfI p</li> </ol>	conserved hypothet	oligopeptide perme	A / G specific ade	trsG protein - Yer
S76046	A37316	T35966	E96720	B47521	D86428	T01369	C47521	T08165	PH1366	A54256	AB1191	AB1549	JC5121	G83003	851266
0	N	N	N	4	~	~	~	~	N	~	~	~	~	~	7
294	369	529	826	1057	1622	1623	1870	2150	15	120	243	243	351	355	638
0	~	~	0	7	~	7	~	~	4	4	4	4	4	4	4
72.	72.	72.	72.	72.	72.2	72.	72.	72.	70.	70.	70.	5.	70.	70.	70.
39	39	39	39	39	39	39	39	39	38	38	38	38	38	38	38
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

# ALIGNMENTS

 RESULT 1
 bossos hypothetical protein yodI - Bacillus subtilis
 C;Species: Bacillus subtilis
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
C;Accession: E69903
R;Kunst, F.; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berte
C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Ch
A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.
Nature 390, 249-256, 1997
A; Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galle
iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F
Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois
A; Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Mauee
y, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetell
Rieger, M.; Rivolta, C.; Rocha, B.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon
A; Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Sero
 akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama
 T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida,
 A;Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
 A; Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.

Aritle: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. ArReference number: A69580; MUID:98044033; PMID:9384377
Aracession: E69903
Ara

Gaps ó 100.0%; Score 54; DB 2; Length 83; 100.0%; Pred. No. 0.16; ive 0; Mismatches 0; Indels Query Match Best Local Similarity 100.0 ....hes 7; Conservative

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1 GYWGGYW 7 g ò

53 GYWGGYW 59

"Upporherical protein PA4793 [imported] - Pseudomonas aeruginosa (strain PAO1)
C;Species: Pseudomonas aeruginosa
C;Species: Pseudomonas aeruginosa
C;Species: Pseudomonas aeruginosa
C;Accession: G83047
C;Accession: G83047
C;Accession: G83047
C;Accession: G83047
C;Accession: Si Num, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; B adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim
J; Lory, S.; Olson, M.V.
Jiory, S.; Olson, M.V.
A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic path A;Reference number: A82950; MUID: 20437337; PMID: 10984043

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Query Match
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A;Note: Nostoc sp. Strain PCC 7120
A;Note: Nostoc sp. Strain PCC 7120
C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Jul-2004
C;Accession: AI1956
R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Natanabe, A.; Iriguchi Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Ana A;Accession: AI1956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probable ABC transporter, permease SMa0106 [imported] - Sinorhizobium meliloti (strain 1 C;Species: Sinorhizobium meliloti
C;Species: Sinorhizobium meliloti
C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 09-Jul-2004
C;Accession: E95268
R;Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bowe
R;Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bowe
F; Ralnett, M.J.; Falm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C.
Proc. Natl. Acad. Sci. U.S.A. 98, 9883-9889, 2001
A;Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium melilot
A;Reference number: A95262; MUID:21396509; PMID:11481432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A. Status: preliminary
A. Molecule type: DNA
A. Endan to the type: DNA
A. Experimental source: strain 1021, megaplasmid pSymA
A. Experimental source: strain 1021, megaplasmid pSymA
A. Experimental source: T. M.; Long, S. R.; Publer, A.; Abola, P.; Ampe, F.; Barloy-Hubler, pela, D.; Chain, P.; Cowie, A.; Davis, R. W.; Dreano, S.; Federspiel, N. A.; Fisher, R. F.;
L.; Hyman, R. W.; Jones, T.
A. Authors: Kahn, D.; Kahn, M. L.; Kalman, S.; Keating, D. H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F. J.; Weidner, S.; Wells, D. H.; Wong, K.; Yeh, K. A. A. Title: The composite genome of the legume symbiont Sinorhizoblum meliloti.
A. Reference number: As 96039; MUID: 21368234; PMID: 11474104
A;Status: preliminary
A;Molecule type: DNA
A;Molecule type: DNA
A;Cross-references: UNIPROT:O9HV15; GB:AE004892; GB:AE004091; NID:g9951049; PIDN:AAG0817
A;Experimental source: strain PAO1
A;Gene: PA4793
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                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                          100.0%; Score 54; DB 2; Length 187; Conservative 0; Mismatches
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90.7%; Score 49; DB 2;
Best Local Similarity 85.7%; Pred. No. 2.5;
Matches 6; Conservative 1; Mismatches
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C;Superfamily: oligopeptide permease protein oppB
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GYWGGWW 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            109 GYWGGYW 115
                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                        1 GYWGGYW 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Accession: E95268
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A;Cross-references: UNIPROT:Q8YXK8; GB:BA000019; PIDN:BAB73161.1; PID:g17130551; GSPDB:c
A;Experimental source: strain PCC 7120
C;Genetics:
A;Gene: asr1204
                                                                                                                                                                                                                                                                                                                                                                                                                                                             phosphatidate cytidylyltransferase PA3651 [imported] - Pseudomonas aeruginosa (strain P. C.Species: Pseudomonas aeruginosa
C.Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
C.Accession: F83188
R.Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Bradan, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, Jature 406, 959-964, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Title: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic path. A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: F93188
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-271 <STO>
A;Residues: 1-271 <STO>
A;Experimental source: strain PAO1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              phosphatidate cytidylyltransferase (EC 2.7.7.41) - Paeudomonas aeruginosa N;Alternate names: CDP-diglyceride synthethase C;Species: Pseudomonas aeruginosa (;Species: Pseudomonas aeruginosa C;Date: 15-Aug-1996 #sequence_revision 15-Oct-1996 #text_change 09-Jul-2004 C;Accession: JC4832 R;Taguchi, K.; Fukutomi, H.; Kuroda, A.; Kato, J.; Ohtake, H. R;Taguchi, K.; Fukutomi, H.; Fukutomi, B.; Fukutomi, H.; Millo: Seasion: JC4832 A;Title: Cloning of the Pseudomonas aeruginosa gene encoding CDP-diglyceride synthetase A;Reference number: JC4832; MUID:96257274; PMID:8654980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA A; Molecule type: DNA A; Molecule type: DNA A; Molecule type: DNA A; Molecule type: 1-271 < TNG A; Molecule to TNIPROT: 059640; DDBJ: D50811; NID: 91262331; PIDN: BAA09437.1; PID: 9126 C; Comment: This enzyme catalyses the condensation of CTP and phosphatidic acid to form (
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                                                                                                                                                   Length 68;
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Pred. No. 9.6;
0; Mismatches 1; Inde
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85.7%; Pred. No. 9.6;
iive 0; Mismatches
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C,Superfamily: phosphatidate cytidylyltransferase
C,Keywords: nucleotidyltransferase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Gene: cdsA; PA3651
C;Superfamily: phosphatidate cytidylyltransferase
                                                                                                                                             Score 45; DB 2
Pred. No. 2.7;
0; Mismatches
                                                                                                                                                83.3%;
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Similarity 85.7%;
6; Conservative
                                                                                                                                             Query Match 83.3
Best Local Similarity 85.7
Matches 6; Conservative
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                                                                                                                                                                                                                                                                1 GYWGGYW 7
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Best Local Similarity
Matches 6; Conserv
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A,Accession: T41644
A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Molecule type: DNA
A,Residues: 1-760 <WOO>
A,Residues: 1-760 <WOO>
A,Experimental source: UNIPROT:094533; EMBL:AL035247; PIDN:CAA22842.1; GSPDB:GN00068; SPDB
A,Experimental source: strain 972h-; cosmid c895
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein NWA0646 [imported] - Neisseria meningitidis (strain 22491 serogrou C;Species: Neisseria meningitidis
C;Species: Os-May-2000 #sequence_revision 05-May-2000 #text_change 09-Jul-2004
C;Accession: F81984
R;Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; More Nature 404, 502-506, 2000
A;Title: Complete DNA sequence of a serogroup A strain of Neisseria menigitidis 22491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cispecies Neisseria meningitidis
Cipate: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004
Cispecies Neisseria Ne
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A;Experimental source: serogroup B, strain MC58
C;Genetics:
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68;
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Pred. No.
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Best Local Similarity 71.4%;
Matches 5; Conservative 1
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A,Map position: 3
A;Introns: 39/3; 649/3
C;Superfamily: WD repeat homology
    A; Reference number: 222006
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A;Molecule type: DNA
A;Residues: 1-280 <PAR>
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A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-280 <TET>
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99 WGGYW 103
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A;Molecule type: DNA
A;Residues: 1-563 «KUR»
A;Cross-references: UNIPROT:Q8UAG5; GB:AE008689; PIDN:AAL44222.1; PID:g17741803; GSPDB:G
A;Experimental source: strain C58 (Dupont)
                                                                                                                                                                                   hypothetical protein Atu3409 [imported] - Agrobacterium tumefaciens (strain C58, Dupont) C; Species: Agrobacterium tumefaciens
C; Saccession: AH2975
R; Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I.
R; Wood, D.W.; Setubal, J.C.; Raul, R.; Monks, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell
Science 294, 2317-2323, 2001
A; Muthors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, A; Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A; Reference number: AB2577; MUID:21608550; PMID:11743193
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A;Cross-references: UNIPROT:Q8UAG5; GB:AE007870; PIDN:AAK89981.1; PID:g15159946; GSPDB:G
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C;Species: Agrobacterium tumefaciens
C;Species: Agrobacterium tumefaciens
C;Species: 22-0ct-2001 #sequence_revision 22-0ct-2001 #text_change 09-Jul-2004
C;Accession: C98307
R;Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; Science 294, 2323-2328, 2001
A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum A;Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical trp-asp repeat protein - fission yeast (Schizosaccharomyces pombe) C; Species: Schizosaccharomyces pombe C; Species: Schizosaccharomyces pombe C; Species: 30-Bec-1999 #sequence_revision 03-Bec-1999 #text_change 16-Aug-2004 C; Accession: T41644 R; Wood, V.; Rajandream, M.A.; Barrell, B.G.; Lucas, M.; Gaillardin, C. submitted to the EMBL Data Library, January 1999
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Pred. No.
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Best Local Similarity 71.4%;
Matches 5; Conservative
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A;Map position: linear chromosome
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Matches 5; Conservative
102 GYWGGRW 108
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A;Status: preliminary
A;Molecule type: DNA
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C, Superfamily: hypothetical protein HI1037

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probable hexosyltransferase (EC 2.4.1.-) MTH332 [similarity] - Methanobacterium thermoan byAlternate names: LPS biosynthesis rfbU related protein
C;Species Methanobacterium thermoautotrophicum
C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 09-Jul-2004
C;Accession: F69142
R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; A; Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.
A;Tile: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: functals A;Reference number: A69000; MUID:98037514; PMID:9371463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: UNIPROT:026432; GB:AE000818; GB:AE000666; NID:g2621384; PIDN:AAB8483
A;Experimental source: strain Delta H
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C.Species Sinorhizobium meliloti
C.Species Sinorhizobium meliloti
C.Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 09-Jul-2004
C.Accession: G95389
F. Sanorhizobium Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bow. F., Ralman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C Proc. Natl. Acad. Scl. U.S.A. 99, 9883-9888, 2001
A.Fitle: Nucleotide sequence and predicted functions of the entire Sinorhizobium melilot A.Reference number: A95262; MUID:21396509; PMID:11481432
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A; Residues: 1536 cKUR>
A; Cross-references: UNIPROT: 092Y64; GB: AE006469; PIDN: AAK65681.1; PID: g14524171; GSPDB: c
A; Cross-references: UNIPROT: 092Y64; GB: AE006469; PIDN: AAK65681.1; PID: g14524171; GSPDB: c
A; Experimental source: strain 1021, megaplasmid pSymA
R; Galibert, F.; Finan, T.M.; Long, S.K.; Pulner, A.; Abola, P.; Ampe, F.; Barloy-Hubler,
Dela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.,,
Science 293, 668-672, 2001
A; Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure,
A; Authors: The composite genome of the legume symbiont Sinorhizobium meliloti.
A; Reference number: A96039; MUID: 21368234; PMID: 11474104
                                                                                                                                                                                                                                                                                                                                                                                        A; Status: nucleic acid sequence not shown; translation not shown
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Pred. No. 53;
0; Mismatches 1; Indels
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Pred. No. 69;
0; Mismatches
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C,Superfamily: probable hexosyltransferase ytxN
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A; Residues: 1-400 <MTH>
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Best Local Similarity
Matches 5; Conserv
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A;Genome: plasmid
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A;Cross-references: UNIPROT:067831; GB:AE000769; NID:g2984262; PIDN:AAC07795.1; PID:g298
A;Experimental source: strain VF5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C:Accession: C70475
R:Deckert, G.; Warren, P.V.; Gaasterland, T.; Young, W.G.; Lenox, A.L.; Graham, D.E.; Ov
V.
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R; Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson.; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, B.F. Nature. 390, 364-370, 1997
A; Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S. Smith, H.O.; Woese, C.R.; Venter, J.C.
A; Fleis: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaech A; Reference number: A69250; MUID:98049343; PMID:9389475
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A;Cross-references: UNIPROT:029920; GB:AE001082; GB:AE000782; NID:g2689405; PIDN:AAB9090
C;Superfamily: probable hexosyltransferase ytxN
C;Keywords: glycosyltransferase; hexosyltransferase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  probable hexosyltransferase (EC 2.4.1.-) AF0327 [similarity] - Archaeoglobus fulgidus C; Species: Archaeoglobus fulgidus C; Species: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: The complete genome of the hyperthermophilic bacterium Aquifex aeolicus. A;Reference number: A70300; MUID:98196666; PMID:9537320
A;Accession: C70475
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                                                                                                                                                                                                                                                                                                                                                                           cytochrome c biogenesis protein - Aquifex aeolicus
C;Species: Aquifex aeolicus
C;Date: 08-May-1998 #sequence_revision 08-May-1998 #text_change 09-Jul-2004
                                                                                                        Gaps
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                                          Length 280;
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Pred. No. 48;
0; Mismatches 1; Indels
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C, Superfamily: cytochrome c-type synthesis protein
             75.9%; Scor.
100.0%; Pred. No. ...
0; Mismatches
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Local Similarity 83.3%;
nes 5; Conservativé (
Query Match
Best Local Similarity 100...
5. Conservative
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Gaps

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Search completed: April 18, 2005, 19:51:53 Job time : 15.5116 secs

RESULT 14

Length 536;

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

April 18, 2005, 19:37:28 ; Search time 62.3488 Seconds (without alignments) 57.492 Million cell updates/sec Run on:

SEQ1 54 1 97w997w 7 Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

1612378 seqs, 512079187 residues Searched:

1612378 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

UniProt\_03:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### STIMMARTES

	Description	O34654 bacillus su	Q9hv15 pseudomonas	Q88qb8 pseudomonas		Q930z1 rhizobium m		Q821b6 streptomyce		_	Q8yxk8 anabaena sp	drosophil					Q75ds4 ashbya goss		Q81a83 bacillus ce		Q7n8b6 photorhabdu		094533 schizosacch	Q64yt8 bacteroides	Q8alz4 bacteroides	Q8aaz7 bacteroides	Q9f5n7 burkholderi	Q621w6 burkholderi	Q63s57 burkholderi	Q63tf2 burkholderi	O50469 neisseria g	Q9jvw6 neisseria m
SUMMARIES	ΙD	YODI BACSU	Q9HVI5	Q88QB8	Q64VU6	Q930Z1	Q89KL1	Q82LB6	Q8U043	Q8A8U4	Q8YXK8	Q9VZB1	CDSA_PSEAE	Q7SD <u>7</u> 2	Q6LSS8	Q88RD4	CAPA_ASHGO	Q81A84	Q81A83	Q73TG1	Q7N8B6	QBUAGS	094533	Q64YT8	Q8A1Z4	Q8AAZ7	NORM_BURVI	Q62LW6	063857	Q63TF2	050469	Q9JVW6
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	Query Match	100.0	100.0	100.0	100.0	90.7	90.7	88.9	87.0	85.2	83.3	83.3	83.3	83.3	81.5	77.8	77.8	77.8	77.8	77.8	•	77.8	٠	٠	77.8	76.9	76.9	76.9	76.9	75.9	75.9	75.9
	Score	54	54	54	54	49	49	48	47	46	45	45	45	45	44	42	42	42	42	42	42	42	42	42	42	41.5	41.5	41.5	41.5	41	41	41
	Result No.		<b>c</b> 1	Э	4	S	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Q99y00 neisseria m Q62kz9 burkholderi O6783 aquifex aeo O29920 archaeoglob Q7npv4 chromobacte Q8xv46 ralstonia s Q9adk5 streptomyce Q62gn8 burkholderi O66432 methanobact Q98718 rhizobium s Q92y64 rhizobium m q92y64 rhizobium m
09JY00 062KZ9 067KZ9 067831 067NPV4 09ADKS 063GNB 0663Q45 0663Q45 096718 098718
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2880 312 312 3312 3381 3395 4400 505 536
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# ALIGNMENTS

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Kuwahara T., Yamashita A., Hirakawa H., Nakayama H., Toh H., Okada N., Kuwahara S., Hattori M., Hayashi T., Ohnishi Y.;
Kuhara S., Hattori M., Hayashi T., Ohnishi Y.;
Genomic analysis of Bacteroides fragilis reveals extensive DNA inversions regulating cell surface adaptation.";
Proc. Natl. Acad. Sci. U.S.A. 0:0-0(2004).
EMBL; AP006841; BAP48380.1; -.
BYPOCHetical protein.
SEQUENCE 440 AA; 49713 MW; 2EC38AFB04138439 CRCA4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=22423060; PubMed=12534463;
Nelson K.B., Weinel C., Paulsen I.T., Dodson R.J., Hilbert H.,
Martins dos Santos V.A.P., Fouts D.E., Gill S.R., Pop M., Holmes M.,
Brinkac L.M., Beanan M.J., DeBoy R.T., Daugherty S.C., Kolonay J.F.,
Madupu R., Nelson W.C., White O., Peterson J.D., Khouri H.M.,
Hance I., Chris Lee P., Holtapple E.K., Scanlan D., Tran K.,
Moazzez A., Utterback T.R., Rizzo M., Lee K., Kosack D., Moestl D.,
Wedler H., Lauber J., Stlepandic D., Hoheisel J., Straetz M., Heim S.
Kiewitz C., Elsen J.A., Timmis K.N., Duesterhoeft A., Tuemmler B.,
                                                                                                                                                                                                                                                                                                               Pseudomonas putida (strain KT2440).
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteroides fragilis.
Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
Bacteroidaceae; Bacteroides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 54; DB 2; Length 189; 100.0%; Pred. No. 2.5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'Complete genome sequence and comparative analysis of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Complete proteome, Lipoprotein.
SEQUENCE 189 AA; 21449 MW; F0501C66D4EF483C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    metabolically versatile Pseudomonas putida KT2440.";
Environ. Microbiol. 4:799-808(2002).
EMBL; AE016776; AAN66203.1; -.
                                                                                                                                                                                                        (TrEMBLrel. 24, Last sequence update) (TrEMBLrel. 26, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protéin.
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                                                                                                                                                                                                                                                                                                                                                                     Pseudomonadaceae; Pseudomonas.
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Best Local Similarity 100...
Best Tocal 7; Conservative
                                                                                                                                                                                                                                                                                     OrderedLocusNames=PP0576;
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                                                                                                                                                                           01-JUN-2003
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01-MAR-2004
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Q64VU6;
                                                               RESULT 3
Q88QB8
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. Q64VU6
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Vassarotti A., Viari A., Wambutt R., Wedler E., Wedler H., Weitzenegger T., Winters P., Wipat A., Yamamcto H., Yamane K., Yasumoto K., Yata K., Yoshida K., Yoshikawa H.F., Zumstein E., Yoshikawa H., Danchin A., "The complete genome sequence of the Gram-positive bacterium Bacillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-ATCC 15692 / PAO1;
MEDLINE-20431337; PubMed-10984043; DOI=10.1038/35023079;
MEDLINE-20431337; PubMed-10984043; DOI=10.1038/35023079;
MEDLINE-20431337; PubMed-10984043; DOI=10.1038/35023079;
MICKEY M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M., Garber R.L., Goltry L., Tolentino E., Westbrock-Wadman S., Yuan Y., Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M., Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T., Reizer J., Saler M.H., Hancock R.E.W., Lory S., Olson M.V.; "Complete genome sequence of Pseudomonas aeruginosa PAO1, an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
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Interpro; IPR008991; Transl SH3 like.
Complete proteome; Hypothetical protein; Transmembrane.
TRANGNEM 58 80
Potential.
SEQUENCE 83 AA; 9194 MW; 99F58EA2F0F36A43 CRC64;
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Complete proteome; Hypothetical protein.
SEQUENCE 187 AA; 21281 MW; 8908E9EBEEC51897 CRC64;
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Last annotation update)
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EMBL; Z99114; CAB13852.1; -.
PIR; E69903; E69903.
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01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                   Nature 390:249-256(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OrderedLocusNames=PA4793;
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Matches 7; Conservative
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09HV15; **Q9HV15** 

RESULT 2

ઠે 셤 Gaps

Gaps

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109 GYWGGYW 115

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MEDLINE=22484998; PubMed=12597275;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Streptomyces avermitilis.
                                                                                                                                                                                                                                                                                                      6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                 94 GYWGGWW 100
                                                                                                                                                                                                                                                                                                                           1 GYWGGYW 7
                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=33903;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN=MA-4680;
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                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                            082LB6
                                                                                                                                                                                                                                                                                                       Matches
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Q82LB6
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                                                                                                                                                                                                                                                    MEDLINE-21396509; PubMed=11481432; DOI=10.1073/pnas.161294798;

A Barnett M.J., Fisher R.F., Jones T., Komp C., Abola A.P.,

Barnett M.J., Fisher R.F., Jones T., Komp C., Abola A.P.,

Barnett M.J., Fisher R.F., Jones T., Komp C., Abola A.P.,

Barnett M.J., Hong A., Huizar L., Hyman R.W., Kahn D., Kahn M.L.,

Kalman S., Keating D.H., Palm C., Peck M.C., Surzycki R., Wells D.H.,

R.C., Davis R.W., Federspiel N.A., Long S.R.;

T. "Nucleotide sequence and predicted functions of the entire

Sinorhizobium meliloti pSymA megaplaemid.";

Proc. Natl. Acad. Sci. U.S.A. 98:9881-9888 (2001).

Probably responsible for the translocation of the substrate across

the membrane (By similarity).

-: SUMILELULAR LOCATION: Integral membrane protein (By similarity).

-: SIMILERIULAR LOCATION: Litegral membrane protein-dependent transport
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OrderedLocusNames=bl14894;
Bradyrhizobium japonicum.
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae; Bradyrhizobium.
                                                                                                                                                                                    Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales; Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90.7%; Score 49; DB 2; Length 273; 85.7%; Pred. No. 17; 1.1ve 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29288 MW; 62884BA92EE49AD8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q930Z1;
01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative ABC transporter, permease.
ORFNames=SMa0106;
Rhizobium meliloti (Sinorhizobium meliloti).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-UNN-2003 (TrEMBLrel. 24, Created)
01-UNN-2003 (TrEMBLrel. 24, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
                                                                              273 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO; GO:0016021; C:integral to membrane; IEA. GO; GO:0005215; F:transporter activity; IEA. GO; GO:0006810; P:transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           273 AA.
                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000515; BPD_transp.
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EMBL; AE007199; AAK64711.1; -.
PIR; E95268; E95268.
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Best Local Similarity 85.7'
Matches 6; Conservative
                                                                              PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               94 GYWGGWW 100
                   GYWGGYW 218
1 GYWGGYW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GYWGGYW 7
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                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                           NCBI_TaxID=382;
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                                                                                                                                                                          Plasmid pSymA.
                                                                                                                                                                                                                                              STRAIN=1023
                     212
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                                                                              Q930Z1
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Ikeda H., Ishikawa U., Hananoto A., Shinose M., Kikuchi H., Shiba T., Sakaki Y., Hattori M., Omura S.;
"Complete genome sequence and comparative analysis of the industrial microorganism Streptomyces avermitilis.";
Mat. Biotechnol. 21:526-531(2003).
-!- FUNCTION: Part of a binding-protein-dependent transport system. Probably responsible for the translocation of the substrate across the membrane (By similarity).
-!- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
-!- SIMILARITY: Belongs to the binding-protein-dependent transport system permease family.
                                                                                                                                                 "Complete genomic sequence of nitrogen-fixing symbiotic bacterium
Bradyrhizobium japonicum USDA110.";
Bradyrhizobium japonicum USDA110.";
Bradyrhizobium japonicum USDA110.";
I- FUNCTION: Part of a binding-protein-dependent transport system.
Probably responsible for the translocation of the substrate across
the membrane (By similarity).
-- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
--- SUBCELLULAR LOCATION: Integral membrane protein transport
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Kaneko T., Nakamura Y., Sato S., Minamisawa K., Uchiumi T.,
Sasamoto S., Watanabe A., Idesawa K., Iriguchi M., Kawashima K.,
Kohara M., Matsumoto M., Shimpo S., Tsuruoka H., Wada T., Yamada M.,
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Streptomycineae; Streptomycetaceae; Streptomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 49; DB 2; Length 273;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          273 AA; 29042 MW; 6E3D8EE197497613 CRC64;
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Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Proc. Natl. Acad. Sci. U.S.A. 98:12215-12220(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL, AP005953; BAC50159.1; -. GO:0016021; C:Integral to membrane; IEA. GO; GO:0016021; C:Integral to membrane; IEA. GO; GO:0005215; F:transporter activity; IEA. GO; GO:0006810; P:transport; IEA. InterPro; IFP000515; BPD rransp. Pfam: PF00528; BPD transp. Pfam: PF00528; BPD transp. PROSITE; PS50928; ABC_IMI; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Complete proteome; Transmembrane; Transport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 17;
1; Mismatches
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MEDLINE=22608306; PubMed=12692562;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-JUN-2003 (TrEMBLrel. 24, 01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        system permease family.
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OrderedLocusNames=SAV2094;
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PRT;
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01-MAY-2000 (TrEMBLrel. 13,
01-OCT-2002 (TrEMBLrel. 22,
                                                                             Local Similarity 85.7
nes 6; Conservative
                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6; Conservative
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                                                                                                                              130 GYWGPYW 136
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Matches 6; Conser
                                     Complete proteome.
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                                                                                                           1 GYWGGYW
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01-MAY-2000
01-MAY-2000
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                                              SEQUENCE
                                                                   Query Match
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                                                                                       Matches
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Q9VZB1
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SEQUENCE FROM N.A.
STRAINS-VPI-5482 / ATCC 29148;
MEDLINE-22550886; PubMed=12663928; DOI=10.1126/science.1080029;
Xu J., Bjursell M.K., Himrod J., Deng S., Carmichael L.K.,
Chiang H.C., Hooper L.V., Gordon J.I.;
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GO; GO:0016021; C:integral to membrane; IEA.
GO; GO:0003351; F:sugar porter activity; IEA.
GO; GO:0005351; F:tanaporter activity; IEA.
GO; GO:0006810; P:transport; IEA.
Interpro; IPR000515; BPD_transp.
Pfam; PR00328; BPD transp. 1; 1.
PROSTIE; PS50928; ABC TMI_1 1.
Complete proteome, Sugar transport; Transmembrane; Transport.
SEQUENCE 296 AA; 32715 MW; 70374AD2BB86FB8A CRC64;
                                                                                                                                                                                                                                                                                                                                                      Bacteroides thetaiotaomicron.
Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
Bacteroidaceae; Bacteroides.
                                                                                                         Length 296;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      87.0%; Score 47; DB 2; Length 363; 85.7%; Pred. No. 43;
                                                                                                                             1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                   363 AA; 40352 MW; D36E5D4A5EAE6CBC CRC64;
                                                                                                                                                                                                                                        01-JUN-2002 (TrEMBLrel. 21, Created)
01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Iron (III) ABC transporter, ATP-binding protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Last sequence update)
Last annotation update)
                                                                                                        88.9%; Score 48; DB 2; 85.7%; Pred. No. 26;
                                                                                                                           0; Mismatches
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01-UUN-2003 (TrEMBLrel. 24, Last seq
01-MAR-2004 (TrEMBLrel. 26, Last ann
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                                                                                                                                                                                                                                                                                   OrderedLocusNames=PF1774;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hypothetical protein.
OrderedLocusNames=BT1073;
                                                                                                                  Local Similarity 85.7
les 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6; Conservative
                                                                                                                                                                                                                      PRELIMINARY;
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                                                                                                                                                                   198 GYWGAYW 204
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                                                                                                                                                                                                                                                                                             Pyrococcus furiosus
                                                                                                                                                1 GYWGGYW 7
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Complete proteome
SEQUENCE 363 AA
                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=2261;
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                                                                                                        Query Match
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"A genomic view of the human-Bacteroides thetaiotaomicron symbiosis."; Science 299:2074-2076(2003).
EMBL; AE016930; AAO76180.1; -.
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MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
                                                                                                                                                                                                                                                                                     Gaps
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WEDLINE-21595285; PubMed=11759840;
REDLINE-21595285; PubMed=11759840;
REDLINE-21595285; PubMed=11759840;
REDLINE-21595285; PubMed=11759840;
REDLINE-21595285; PubMed=17., Kuritz T., Sasamoto S.,
Ratanabe A., Iriguchi M., Ishikawa A., Kawashima K., Kimura T.,
RASARIA Y., Kohara M., Matsumoto M., Marsumo A., Muraki A.,
RASARIA N., Shimpo S., Sugimoto M., Takazawa M., Yamada M.,
RASARIA S., Sugimoto M., Takazawa M., Yamada M.,
RASARIA S., Sugimoto Of the filamentous nitrogen-fixing
Cyanobacterium Anabaena sp. strain PCC 7120.";
DNR Res, 81050-213(2001).
REMBL, AP0031895; BAB73161.1; -.
DR FRR, A11956; A11956.
KW Complete proteome.
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Bukaryota, Metazoa, Arthropoda, Hexapoda, Insecta, Pterygota, Neoptera, Endopterygota, Diptera, Brachycera, Endopterygota, Diptera, Brachycera, Muscomorpha, Ebhydroidea, Drosophilidae, Drosophila.
                                                                                                                                                                                                          85.2%; Score 46; DB 2; Length 214;
85.7%; Pred. No. 38;
ive 0; Mismatches 1; Indels
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OrderedLocusNames=asr1204;
Anabaena sp. (strain PCC 7120).
Bacteria; Cyanobacteria; Nostocales; Nostocaceae; Nostoc.
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Pred. No. 20;
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                                                                                                                                              214 AA; 24735 MW; 84ABB75A740D226B CRC64;
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01-WAR-2002 (TrEMBLrel. 20, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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Last sequence update)
Last annotation update)
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SEQUENCE FROM N.A.

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RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Man K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Ballaw R.M., Babu A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballaw R.M., Babu A., Barnahle J., Bayraktaroglu L., Beasley E.M.,
RA Ballaw R.M., Babon P.V., Bernan B.P., Bhandari D., Bolshakov S.,
Borkova D., Botchan M.R., Bouck J., Broktein P., Brottier P.,
RA Gherry J.M., Cavaley S., Dahlke C., Davenport L.B., Davies P.,
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RA Bourbin K.J., Evangelista C.C., Ferrataz S., Fleischmann W.,
RA Fosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
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RA Ralazzolo M., Pittman G.S., Pan B., Wurthy D., Will W., Smith T.,
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RA Spier B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Shies B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Shies B.C., Stander W., Woilbarg G., Zhao Q.A., Ye J.,
RA Web R.P., Zaveri J.S., Zhan W., Zhong X., Zhu X., Smith H.O.,
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RA Yeh R.P., Zaveri J.S., Zhan W., Zhong X., Zhu X., Smith H.O.,
RA Yehn R.P., Zaveri J.S., Zhong W., Zhao Q.A., Shielban R.A., Weiter E.M., Rubin G.M., Weiter E.M., Sience 287:2185-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE-22445605; PubMed=12537568;
MEDLINE-22445605; PubMed=12537568;
MEDLINE-22445605; PubMed=12537568;
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Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R., Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M., Ashburner M., Celniker S.E., "The transposable elements of the Drosophila melanogaster euchromatin:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=22426069; PubMed=12537572;
Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfied E.J., Bayraktaroglu L., Berman B.P.
Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'Annotation of the Drosophila melanogaster euchromatic genome: a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
[6]
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Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
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MEDLINE=22426070; Pubmed=12537573;
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                                                                                                                                                                                         Gaps
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STRAIN=ATCC 15692 / PAO1;
STRAIN=ATCC 15692 / PAO1;
MEDLINE=96257274; PubMed=8654980; DOI=10.1016/0378-1119(96)00009-1;
Taguchi K., Fukutomi H., Kuroda A., Kato J., Ohtake H.;
"Cloning of the Pseudomonas aeruginosa gene encoding CDP-diglyceride synthetase.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=20437337; PubMed=10984043; DOI=10.1038/35023079; MEDLINE=20437337; PubMed=10984043; DOI=10.1038/35023079; Stover C.K., Pham X.O.T., Erwin A.L., Mizoguchi S.D., Warrener P., Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M. Garber R.L., Goltry L., Tolentino E., Westbrock-Wadman S., Yuan Y., Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M., Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T., Reizer J., Saler M.H., Hancock R.E.W., Lory S., Olson M.V.; "Complete genome sequence of Pseudomonas aeruginosa PAO1, an

diacylglycerol.
-!- PATHWAY: Phospholipid biosynthesis.
-!- SUBCELLULAR LOCATION: Integral membrane protein. Inner membrane.
-!- SIMILARITY: Belongs to the CDS family.

                                                                                                                                                                                                                                                                                                                                                                                                                         16-OCT-2001 (Rel. 40, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Phosphatidate cytidylyltransferase (EC 2.7.7.41) (CDP-diglyceride synthetase) (CDP-diglyceride pyrophosphorylase) (CDP-diacylglycerol synthese) (CDS) (CTP:phosphatidate cytidylyltransferase) (CDP-DAG synthase)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATALYTIC ACTIVITY: CTP + phosphatidate = diphosphate + CDP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
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0
                                                                                                                                                   83.3%; Score 45; DB 2; Length 106; 85.7%; Pred. No. 29;
                                                                                                                                                                                         0; Indels
                                  to the EMBL/GenBank/DDBJ databases.
        Flybase;
Submitted (MAR-2004) to the Embs, ...
EMBL; AE003481; AAF47913.1; -.
INTACT; QUVZB1; -.
Flybase; FB000035554; CG13721.
Flybase; FB000035554; CG13721.
Flybase; FB000035554; CG13721.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=cdsA; Synonyms=cds; OrderedLocusNames=PA3651;
                                                                                                                                                                                                                                                                                                                                                                    271 AA.
                                                                                                                                                                                         1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                         01-NOV-1997 (Rel. 35, Created)
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PIR; F83188; F83188.
PIR; JC4832; JC4832.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 opportunistic pathogen.";
Nature 406:959-964(2000).
                                                                                                                                                                   Local Similarity 85.7
les 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gene 172:165-166(1996).
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68 GYYGGYW 74
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Q59640;
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                                                                                                                                                                                         Matches
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Vezzi A., Campanaro S., D'Angelo M., Simonato F., Vitulo N., Lauro F.,
Cestaro A., Malacrida G., Simionati B., Cannata N., Bartlett D.,
Valle G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Genome analysis of Photobacterium profundum reveals the complexity of
                                                                                                                                                                                                                           Photobacterium profundum (Photobacterium sp. (strain SS9)).
Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
Vibrionaceae; Photobacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          81.5%; Score 44; DB 2; Length 302; 83.3%; Pred. No. 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           302 AA; 34200 MW; 708FA80ED34BADE7 CRC64;
                                                                                                                          (TrEMBLrel. 27, Last sequence update) (TrEMBLrel. 27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Mismatches
                                                                                                 Created)
                                                                                                                                                                      Hypothetical protein.
OrderedLocusNames=PBPRA1237;
                                                                                              (TrEMBLrel. 27,
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                                         PRELIMINARY;
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                                    Q6LSS8
Q6LSS8;
05-JUL-2004
05-JUL-2004
05-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
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Bukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
                                                          Inner membrane; Nucleotidyltransferase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 83.3%; Score 45; DB 2; Length 762; Best Local Similarity 71.4%; Pred. No. 1.6e+02; Matches 5; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 271;
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5025059C3F1A64C7 CRC64;
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EMBL; AABX01000062; EAA34710.1; -.
InterPro; IPR011014; MscS_transmembr.
SEQUENCE 762 AA; 84704 MW; 2C7DD1515E1902FA CRC64;
                                            Phospholipid blosynthesis; Transferase; Transmembrane.
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Last annotation update)
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Pred. No. 65;
0; Mismatches
                                                                                                                                                                 Potential.
Potential.
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        transf_1; 1.
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Pfam; PF01148; CTP transf
PROSITE; PS01315; CDS; 1.
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554 GFWGGWW 560
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251
131
271 AA;
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Q7SD72; Q7SD72

RESULT 13

Q7SD72

Matches

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Gaps

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MEDLINE=22423060; PubMed=12534463;
MEDLINE=22423060; PubMed=12534463;
Melon K.E., Weinel C., Paulsen I.T., Dodson R.J., Hilbert H.,
Martins dos Santos V.A.P., Fouts D.E., Gill S.R., Pop M., Holmes M.,
Brinkac L.M., Beanan M.J., DeBoy R.T., Daugherty S.C., Kolonay J.F.,
Madupu K., Melson W.C., White O., Peterson J.D., Khouri H.M.,
Hance I., Chris Lee P., Holtzapple E.K., Scanlan D., Tran K.,
Moazzez A., Utterback T.R., Rizzo M., Lee K., Kosack D., Moestl D.,
Wedler H., Lauber J., Stjepandic D., Hoheisel J., Straetz M., Heim S.,
Kiewitz C., Eisen J.A., Timmis K.N., Duesterhoeft A., Tuemmler B., Pseudomonas putida (strain KT2440). Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas. Length 210; "Complete genome sequence and comparative analysis of the metabolically versatile Pseudomonas putida KT2440."; Brivion. Microbiol. 4:799-808(2002).
EMME: AEO16774; AAN65831.1; -. 210 AA; 22827 MW; 89E800A87428770A CRC64; 01-JUN-2003 (TrEMBLrel. 24, Created) 01-JUN-2003 (TrEMBLrel. 24, Last sequence update) 01-OCT-2003 (TrEMBLrel. 25, Last annotation update) rIGR; PP0198; -.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005293; F:lysine permease activity; IEA.
GO; GO:0006865; P:amino acid transport; IEA.
InterPro; IPR001123; LysE.
Pfam; PF01810; LysE; 1. 77.8%; Score 42; DB 2; I 71.4%; Pred. No. 1.4e+02; Query Match Best Local Similarity

RESULT 14

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0; Gaps		
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1; Indels		
1; Mismatches	•	
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5; Conservative	1 GYWGGYW 7	35 GFWRGYW 41
Matches	δλ	qo

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Search completed: April 18, 2005, 19:58:23 Job time : 65.3488 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

April 18, 2005, 19:18:17 ; Search time 71.7907 Seconds (without alignments) 37.711 Million cell updates/sec Run on:

Title: Perfect score:

1 gywggyw 7 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692 seqs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

geneseqp2000s:\* geneseqp2001s:\* geneseqp2002s:\* A\_Geneseq\_16Dec04:\* : geneseqp1980s:\* : geneseqp1990s:\* geneseqp2003as:\* geneseqp2003bs:\* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:\*

#### SUMMARIES

	uo.	Pseudomon	Protein e	Drosophil	Pseudomon	Fluorine-	Fluorine-	Iodinated	Peptide h	Immunogen	Human pol	Human ant	Protein e	Anti-CD19	Photorhab	Insulin/i	Insulin r	Insulin q	IGF-1R/IR	Anti-IGF-	Insulin r	Insulin r	IGF-1R/IR	Insulin a	Insulin/i	IGF-1R re
	Description	Abo78095	Abu20398	Abb68525	Abo72468	Aay03714	Aay03716	Adg94002	Ad198013	Aay76816	Aao11208	Adn49403	Abu39959	Aaw09436	Abm67619	Aau90607	Ada04444	Adh95657	Ad168348	Adm38193	Ada04885	Adh96098	Ad168789	Adm38634	Aau90645	Ada04482
	ID	AB078095	ABU20398	ABB68525	AB072468	AAY03714	AAY03716	ADG94002	ADL98013	AAY76816	AA011208	ADN49403	ABU39959	AAW09436	ABM67619	AAU90607	ADA04444	ADH95657	ADL68348	ADM3 8193	ADA04885	ADH96098	ADL68789	ADM38634	AAU90645	ADA04482
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	Length DB	339	440	106	200	80	80	80	æ	6	131	118	211	243	447	20	20	20	20			26		26		40
dР	Query Match	100.0	100.0	83.3	83.3	90.6	90.6	80.6	90.6	90.6	79.6	77.8	77.8	77.8	77.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
	Score	54	54	45	45	43.5	43.5	43.5	43.5	43.5	43	42	42	42	42	41	41	41	41	41	41	41	41	41	41	41
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ADH95695 ADL68386 ADM38231 ABM38231 ABM50792 ABM26529 ABM26529 ABM22337 ABM22337 ADM19932 ADM16993 ADM49765 ADM49778	ADE49//1
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## ALIGNMENTS

Bacterial infection; Pseudomonas aeruginosa infection; antibacterial. Pseudomonas aeruginosa polypeptide #10270. ABO78095 standard; protein; 339 AA. (GENO-) GENOME THERAPEUTICS CORP. 99US-00252991. 98US-0074788P. 98US-0094190P. (first entry) Pseudomonas aeruginosa. US6551795-B1, 18-FEB-1999; 18-FEB-1998; 27-JUL-1998; 29-JUL-2004 22-APR-2003 ABO78095; RESULT 1 

Rubenfield MJ, Nolling J, Deloughery C,

Bush D;

WPI; 2003-615309/58. N-PSDB; ABD11666.

Novel isolated nucleic acid encoding Pseudomonas aeruginosa polypeptide, useful as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from bacterial infection.

Disclosure; SEQ ID NO 26841; 455pp; English.

The invention relates to Pseudomonas aeruginosa polypeptides and the polynucleotides encoding them. The sequences are useful in diagnosis and therapy of pathological conditions, as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from a bacterial infection, for evaluating a compound, such as a polypeptide, for the ability to bind a P. aeruginosa nucleic acid, as components of effective antibacterial targets, as targets for antibacterial drugs, including anci-P. aeruginosa durgs, as templates for recombinant production of P. aeruginosa-derived peptides or polypeptides, as target components for diagnosis and/or treatment of P. aeruginosa-caused infection, and in detection of P. aeruginosa sequences or other sequences of Pseudomonas species using biochip technology. Sequences ABO67826-

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The invention relates to an isolated nucleic acid comprising any one of the 6213 antisense sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a promoter operably linked to the nucleic acid encoding a polypeptide whose expression is inhibited by the antisense nucleic acid; (2) a host cell containing the vector; (3) an isolated polypeptide or its fragment whose expression is inhibited by the antisense nucleic acid; (4) an antibody capable of specifically binding the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular proliferation or the activity of a gene in an operon required for proliferation; (7) identifying a compound that influences the activity of the gene product or that has an activity against a biological pathway required for proliferation, or that inhibits cellular proliferation; (8) identifying a gene required for cellular proliferation or the biological pathway in which a proliferation-required gene or its gene product lies or a gene on which the test compound that inhibits proliferation of an organism acts; (9) manufacturing an antibiotic; (10) profiling a
ABO84396 represent P. aeruginosa polypeptides of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format from USPTO at sequence.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antisense, prokaryotic essential gene; cell proliferation; drug design.
                                                                                                                                                                                   Gaps
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Xu HH;
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                                                                                                                                         100.0%; Score 54; DB 7; Length 339; 100.0%; Pred. No. 5.5;
                                                                                                                                                                                 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protein encoded by Prokaryotic essential gene #5925.
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Yamamoto R,
                                                                                                                                                                             0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                ABU20398 standard; protein; 440 AA.
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Carr GJ,
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25-OCT-2001; 2001US-0342923P.
08-FEB-2002; 2002US-00072851.
06-MAR-2002; 2002US-0362699P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-MAR-2002; 2002WO-US009107,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-MAR-2001; 2001US-00815242
                                                                                                                                                                                                                                                                                                                                                                                                                          19-JUN-2003 (first entry)
                                                                                                                                     Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
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                                                                                                                                                                                                                                                    261 GYWGGYW 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteroides fragilis
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Trawick JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2003-029926/02.
                                                                                                                                                                                                                 1 GYWGGYW 7
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N-PSDB; ACA24268.
                                                                                                   Sequence 339 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200277183-A2.
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                                                                                                                                                                                                                                                                                                                                                                                      ABU20398;
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Wall D,
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compound's activity; (11) a culture comprising strains in which the gene product is overexpressed or underexpressed; (12) determining the extent to which each of the strains is present in a culture or collection of strains; or (13) identifying the target of a compound that inhibits the proliferation of an organism. The antisense nucleic acids are useful for identifying proteins or screening for homologous nucleic acids required for callular proliferation to isolate candidate molecules for rational drug discovery programs, or for screening homologous nucleic acids required for proliferation in cells other than S. aureus, S. typhimurium, K. pneumoniae or P. arruginosa. The present sequence is encoded by one of the target prokaryotic essential genes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL1615-ABL3051), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABBS7737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell interactions.
                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 32367; 21pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                              6; Length 440;
                                                                                                                                                                                                                                                                                                                                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Drosophila melanogaster polypeptide SEQ ID NO 32367.
                                                                                                                                                                                                                                                                                                                                        100.0%; Score 54; DB 6
100.0%; Pred. No. 6.9;
ive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABB68525 standard; protein; 106 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-MAR-2001; 2001WO-US009231.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-MAR-2000; 2000US-0191637P
11-JUL-2000; 2000US-00614150
                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 100...
7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            212 GYWGGYW 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Venter JC, Adams M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-656860/75.
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                                                                                                                                                                                                                                                                                                                                                                                                                         1 GYWGGYW
                                                                                                                                                                                                                                                                                                     Sequence 440 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pharmaceutical.
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331 GYWGGRW 337

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18F radionuclide; targeting vector; positron emission tomography; F-18; radiolabeling; thiol; fluorine-18.
                                                                                                                                                                                  Fluorine-18 (F-18) labeled peptide 1.
                                                                                 AAY03714 standard; peptide; 8 AA
                                                                                                                                                                                                                                                                                                                  Misc-difference
                                                                                                                                               08-JUN-1999
                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                  AAY03714;
                                                  RESULT 5
                                                                   AAY0371,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      infection, and in detection of P. aeruginosa sequences or other sequences of Pseudomonas species using biochip technology. Sequences AB067826-AB084396 represent P. aeruginosa polypeptides of the invention. Note: The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated nucleic acid encoding Pseudomonas aeruginosa polypeptide, useful as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from bacterial infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to Pseudomonas aeruginosa polypeptides and the polymucleotides encoding them. The sequences are useful in diagnosis and therapy of pathological conditions, as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from a bacterial infection, for evaluating a compound, such as a polypeptide, for the ability to bind a P. aeruginosa nucleic acid, as components of effective antibacterial targets, as targets for antibacterial drugs, including anti-P aeruginosa drugs, as templates for recombinant production of P. aeruginosa-derived peptides or polypeptides, as target components for diagnosis and/or treatment of P. aeruginosa-caused
                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                  Bacterial infection; Pseudomonas aeruginosa infection; antibacterial.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence data for this patent did not form part of the printed specification but was obtained in electronic format from USPTO at
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                                              83.3%; Score 45; DB 4; Length 106;
85.7%; Pred. No. 36;
1ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rubenfield MJ, Nolling J, Deloughery C, Bush D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 21214; 455pp; English.
                                                                                                                                                                                                                                                                                                                                   Pseudomonas aeruginosa polypeptide #4643.
                                                                                                                                                                                                                                ABO72468 standard; protein; 500 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GENO-) GENOME THERAPEUTICS CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-0074788P.
98US-0094190P.
                             Query Match
Query Match
Best Local Similarity 85.7%,
6; Conservative
                                                                                                                                                                                                                                                                                                 29-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                     Pseudomonas aeruginosa,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-615309/58.
                                                                                                                                 ||:||||
68 GYYGGYW 74
                                                                                                              1 GYWGGYW 7
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               Sequence 106 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    US6551795-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-APR-2003
                                                                                                                                                                                                                                                                 ABO72468;
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"optionally has a free or protected amino acid

Location/Qualifiers

'note= group"

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The invention relates to a method for incorporating 18F radionuclide into peptide-containing targeting vectors for use in clinical positron congraphy. Radiolabeling thiol-containing peptides with calisation to mography. Radiolabeling thiol-containing peptides with clinorine-18 (F-18) comprises reacting a peptide comprising a free thiol fluorine-18 (F-18) comprises reacting a peptide comprising a free thiol comprises at least one leaving apoptides with a labeling reagent of formula: 18F-(CH2)m-CRIR2-(CH2)n-X, or a complete in which at least one of the two double bonded carbon atoms bears at least one leaving group comprising 1. Br. Cl., azide, tosylate, mesylate, nosylate, n. m. = 0-2; n. m. = 0-2; X = 1, C. azide, tosylate, mesylate, nosylate, triflate, m. = 0-2; x = 1, C. azide, tosylate, mesylate, nosylate, triflate, H, CONH2, COOH, C. azide, tosylate, mesylate, nosylate, triflate, H, CONH2, COOH, C. azide, tosylate, mesylate, resplate, triflate, H, CONH2, COOH, C. azide, tosylate, mesylate, nosylate, triflate, H, CONH2, COOH, COOH, OH, sulfonic acid, tertiary ammonium, alkyl optionally substituted by CONH2, COOH, OH, sulfonic acid, tertiary ammonium, alkyl or substituted by COOH, OH, sulfonic acid, tertiary amine or comperence such as proteins, antibodies, antibody fragments and receptor-crassed peptides for use in routine clinical positron emission to tomography. The method is simple and efficient. The method uses the unique property of the free thiol groups which are rapidly alkylated at cundural pH and moderate temperature. Sequences AAY0314-716 represent containing a semples of F-18 labeled peptides in the method of detecting a
                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                               residue; optionally has a free
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Radiolabeling thiol-containing peptides with fluorine-18.
                                                                                                                                                                                                                                                  protected amino acid group"
                                      'note= "D-form residue"
                                                                                                                                  note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                           'note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "D-form residue"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-0057485P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-228967/19.
                                                                                       Misc-difference
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Misc-difference
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Gaps

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Query Match 83.3%; Score 45; DB 7; Length 500; Best Local Similarity 85.7%; Pred. No. 1.5e+02; Matches 6; Conservative 0; Mismatches 1; Indels

GYWGGYW 7

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RESULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention relates to a method for incorporating 18F radionuclide into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18F radionuclide, targeting vector; positron emission tomography; F-18; radiolabeling; thiol; fluorine-18.
                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note= "D-form residue; optionally acetylated"
                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Radiolabeling thiol-containing peptides with fluorine-18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note= "D-form residue; D-iodo-Tyr"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "D-form residue; D-iodo-Tyr"
                                                                                        DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'note= "N-terminal acetylation"
                                                                                      Score 43.5; DB 2;
Pred. No. 1.8e+06;
0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'note= "D-form residue'
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fluorine-18 (F-18) labeled peptide 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                 AAY03716 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15; Page 15; 22pp; English.
                                                                                      80.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US018268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-0057485P
                                                                                                                                                                                                                                                                                                                                                                                                                   08-JUN-1999 (first entry)
                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (IMMU-) IMMUNOMEDICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-228967/19.
                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                             1 GYWG-GYW
                                                                                                                                                                                                                      GYWGKGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Misc-difference 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Misc-difference
                                           Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Griffiths GL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9911590-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                          AAY03716;
  tissue
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quaternary ammonium), COOR', CONR'2 or COR'; and R' = 1-6C alkyl or phenyl. The method is used for Radiolabeling peptide-containing targeting vectors such as proteins, antibodies, antibody fragments and receptor-targeted peptides for use in routine clinical positron emission tomography. The method is simple and efficient. The method uses the nique property of the free thiol groups which are rapidly alkylated at neutral pH and moderate temperature. Sequences AAY03714-716 represent examples of F-18 labeled peptides used in the method of detecting a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Targeting an agent towards a target site in a tissue, by administering in a tissue, a multi-specific antibody or its fragment and a polymer conjugate that binds to the capture arm of the multi-specific antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to targeting an agent towards a target site in a tissue, comprising administering to the tissue, a multi-specific antibody or its fragment, comprising a targeting arm that binds to an antigen of
                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "D-form residue and optionally iodinated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "D-form residue and optionally iodinated"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Iodinated immunogenic peptide, multi-specific antibody, polymer conjugate, tumour, cytostatic, photodynamic therapy.
                                                                                                                                                                                                             8
                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'note= "Acetylated D-form residue"
                                                                                                                                                                                                          Score 43.5; DB 2;
Pred. No. 1.8e+06;
                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'note= "Acetylated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 8; 19pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                  ADG94002 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Codinated immunogenic peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-JUL-2002; 2002US-00209592.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-JUL-2001; 2001US-0308605P.
                                                                                                                                                                                                           80.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (IMMU-) IMMUNOMEDICS INC.
                                                                                                                                                                                                                                           7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note=
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                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                               1 GYWG-GYW
                                                                                                                                                                                                                                                                                                    GYWGKGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Misc-difference
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Misc-difference
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                                                                                                                                                                            Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                    ADG94002;
                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                ADG94002
                                                                                                                                                                                                                                                                                                                                                                                                                                    CCCX8X444X8X4X8X8X8X8X44444444444X8X8X444X6X
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the target site and a capture arm that binds to a polymer conjugate, and administering a polymer conjugate that binds to the capture arm, the conjugate has a polymer conjugated to the agent such as therapeutic agent, a peptide, an enzyme and a labelled ligand. Also included is a kit useful for targeting a target site within a tissue in a subject or tissue sample comprising the above mentioned multi-specific antibody or its fragment and a polymer conjugate. The method is used for targeting an agent towards a target site in a tissue (e.g. a tumour). The method is also useful for therapeutic or diagnostic purposes and further in photodynamic therapy. The present sequence is an Iodinated immunogenic peptide used to raise antibodies which recognise only the iodinated peptide, used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                       ;
                                                                                                                                                                                                                                                                                                                                           Length 8;
                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                       Score 43.5; DB 7;
Pred. No. 1.8e+06;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                         80.6%;
                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GYWGKGYW 8
                                                                                                                                                                                                                                                                                                                                                                                                                              GYWG-GYW 7
                                                                                                                                                                                                                                                                                                                                                           Local Similarity
Les 7; Conserv
                                                                                                                                                                                                                                                                                               Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                     Matches
      $$$$$$$$$$$$$$$$$$$$
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photodynamic diagnosis; cancer; tumour; cardiovascular lesion; inflammatory disease; neurodegenerative disease; metabolic disease; infectious disease; B-cell malignancy; Alzheimer's disease; amyloidosis; autoimmune disease; bacterial infection; fungal infection; parasitic infection; viral infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                carcinoembryonic antigen-expressing tumour
                                                            ADL98013 standard; peptide; 8 AA.
                                                                                                                                                                                           entry)
                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                          Peptide hapten #1.
                                                                                                                                                                                           20-MAY-2004
                                                                                                                           ADL98013;
RESULT 8
                                 ADL98013
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note= "D form residue; optionally iodo Tyr"
                                                                                                                                   'note= "D form residue; optionally iodo Tyr"
                                                                                                                        'note= "D form residue; acetylated"
                                                                                         'note= "N-terminal acetyl"
                                                                                                             note= "D form residue"
                                                                                                                                            'note= "D form residue
                                                                              Location/Qualifiers
                                                                                                                                        Misc-difference
                                                                                                        Misc-difference
                                                                                   Modified-site
                                                                                              Modified-site
                                                                                                                  Modified-site
                                                                                                                             Modified-site
                                                                    Synthetic.
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JS2004043030-A1

04-MAR-2004.

09-JUN-2003; 2003US-00456580.

31-JUL-2001; 2001US-0308605P. 31-JUL-2002; 2002US-00209592.

(IMMU-) IMMUNOMEDICS INC.

Hansen HJ; Goldenberg DM, Griffiths GL,

WPI; 2004-313738/29.

Treating cancer and metabolic diseases by administering a multi-specific

antibody having a targeting arm that binds to an antigen and a capture arm that binds to a polymer conjugate comprising a therapeutic agent.

Disclosure, Page 16, 24pp, English.

Dullous pemphigatol, diabetes melitius, Henoch-Schonican purpura, poststreptococcal nephritis, erythema neodosu, arteritis,
dddison's disease, rheumatoid arthritis, sarcoidosis, ulcerative colitis,
erythema multiforme, 19A nephropathy, polyarteritis nodosa, ankylosing
spondylitis, Goodpasture's syndrome, thromboanglis ubiterans, primary
cf. chronic active hepatitis, polymyositis/dermatomyositis, polychondritis,
cf. chronic active hepatitis, polymyositis/dermatomyositis, polychondritis,
cf. chronic active hepatitis, polymyositis/dermatomyositis, polychondritis,
cmyotrophic lateral sclerosis, tabes dorealis, giant cell
amyotrophic lateral sclerosis, tabes dorealis, giant cell
amyotrophic lateral sclerosis, tabes dorealis, giant cell
camyotrophic lateral sclerosis, tabes dorealis, giant cell
camyotrophic lateral sclerosis, tabes dorealis, giant cell
cordinates is caused by a tungus chosen from Microsporum, Trichophyton,
Epidermophyton, Sporothrix schenckii, Cyrptococcus neoformans,
coccidiodes immitis, Histoplasma capsulatum, Blastomyces dermatitidis,
coccidiodes immitis, Histoplasma virus, adenovirus, human T-cell
coccidiodes immitis virus, mouse mammary tumour virus, varius, human ratus, mumps virus, mouse mammary tumour virus, adenovirus, human T-cell
coccidiodes in virus, and blue tongue virus, Infectious disease is caused
corrected to the congue virus, The infectious disease is ca The invention relates to a method of diagnosing or treating a disease or adisorder. The method involves administering to a tissue a multi-specific antibody (1) or antibody fragment, comprising a targeting arm that binds to an antigen on the target site, and a capture arm that binds to a polymer conjugate arm, the polymer conjugate conjugate that binds to the capture arm, the polymer conjugate conjugate conjugate to a diagnostic or therapeutic agent. Also included is a method for photodynamic diagnosis or treatment of a disease or disorder; or intravascular or endoscopic method for diagnosing or treating a disease or disorder chosen from cancer (oesophageal, gastric, colonic, rectal, pancreatic, lung, breast, ovarian, urinary bladder, endometrial, certail, testicular, renal, adrenal and liver cancer, solid tumour, Becal malignancy or T-cell malignancy); cardiovascular legion; an clot, embolus, atherogereric plaque and ischemia. The metabolus atherogereric plaque and ischemia. The metabolus atherogereric plaque and ischemia. The metabolus abundaded or ectopic normal tissue chosen from endometrium, thymus, spleen and parathyroid. The method can be used for normal tissue ablation, where the tissue is chosen from bone marrow and spleen. The disease or disorder is an autoimmune disease such as mysathenia gravis, lupus nephritis, lupus erythematosus, and rheumatoid arthritis, class III autoimmune diseases such as immune—mediated thrombocytopenias, such as acute idiopathic thrombocytopenic purpura and chronic idiopathic sclenasis Sydenman's chorea, mysathenia gravis, spleenic purpura, dermatomyositis, Sjogren's systemic lupus erythematosus, lupus nephritis, rheumatic fever, polyglandular syndromes, bullous pemphigoid, diabetes mellitus, Henoch-Schonlein purpura, postinflammatory disease, neurodegenerative disease, metabolic disease, and an infectious disease. The B-cell malignancy is chosen from indolent forms of B-cell lymphomas, aggressive forms of B-cell lymphomas, chronic lymphatic leukaemias, acute lymphatic leukaemias, and multiple myeloma. The solid tumour is chosen melanoma, carcinoma (preferably renal carcinoma, lung carcinoma, intestinal carcinoma, and stomach carcinoma, glioma and sarcoma. The cardinovasius chosen from infarct, elbo, embolus, atheroselerotic plaque and ischaemia. The Légionella pneumophilia, Streptococcus pyogenes, Bscherichia coli, Melsseria agnorrhòeae, Nelsseria meningitidis, Pneumococcus, Haemophilus influenzae B, Treponema pallidum, Lyme disease spirochetes, Pseudomonas aeruginosa, Mycobacterium leprae, Brucella abortus, Mycobacterium lebrae, Brucella abortus, Mycobacterium tuberculosis, and Tetennus toxin. The infectious disease is caused by a protozoa chosen from Plasmodium falciparum, Plasmodium vivax, Toxoplasma gondii, Trypanosoma rangeli, Trypanosoma cruzi, Trypanosoma gondii, Trypanosoma rangeli , Trypanosoma cruzi, Trypanosoma rhodesiensei, Trypanosoma brucei, Schistosoma mansoni, Schistosoma japanicum, Babesia bovis, Elmeria tenella, Onchocerca volvulus,

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Gaps

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Leishmania tropica, Trichinella spiralis, Onchocerca volvulus, Theileria parva, Taemia hydatigena, Taenia ovis, Taemia saginata, Echinococcus granulosus, and Mesocestoides corti. The infectious disease is caused by a mycoplasma chosen from Mycoplasma arthritidis, M. hyorhinis, M. orale, M. arginini, Acholeplasma laidlawii, M. salivarum and M. pneumoniae. The cancer is preferably chosen from carcinocembryonic antigen (CEA) - expressing tumour or a CD20-expressing malignancy. The present sequence represents a peptide used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                      Immunogenic peptide; bi-specific antibody; diagnosis; immune response; diseased tissue identification; therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "D-form residue; modified with free amino acid
group, protected amino acid group, chelating agent or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bi-specific antibodies that bind specific target tissue and targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "free amino acid group, protected amino acid group, chelating agent or a metal-chelate complex"
                                                                                                                                                                                ;
                                                                                                                                                      Length 8;
                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                             Immunogenic peptide for bi-specific antibody recognition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                  Score 43.5; DB B;
Pred. No. 1.8e+06;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mcbride WJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         metal-chelate complex"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Leung S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                               AAY76816 standard; peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 21; Page 61; 76pp; English.
                                                                                                                                                                             0,
                                                                                                                                                   80.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0090142P.
98US-0104156P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US013879
                                                                                                                                                                                                                                                                                                                                                   28-APR-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Griffiths GL,
                                                                                                                                                               Local Similarity 87.5 les 7; Conservative
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                                                                                                                                                                                                        1 GYWG-GYW
                                                                                                                                                                                                                                 GYWGKGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Misc-difference 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Misc-difference 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Misc-difference 9
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                                                                                                                          Sequence 8 AA;
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14-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9966951-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    conjugates
                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                          AAY76816;
                                                                                                                                                   Query Match
                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                    AAY76816
ID AAY7
                                                                                                                                                                                                                                                                      RESULT 9
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This sequence represents an immunogenic peptide for a bi-specific

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diseased tissues in a patient comprising administering a bi-specific antibody (or fragment) having at at least 1 arm (A) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targeteable conjugate. The methods and bi-specific antibodies and fusion proteins are useful for pre-targeting methods of diagnosis and therapy. It is advantageous to raise bi-specific antibodies against a targetable conjugate that is capable of carrying at least 1 diagnostic or therapeutic agent. The characteristics of the chelator, metal chelate complex, therapeutic agent or diagnostic agent can be varied to accommodate differing applications without raising new bi-specific antibodies for each new application. The targetable conjugate is selected to elicit sufficient immune responses and also for rapid in vivo clearance when used within the bi-specific antibody targeting method
                                                                                                                                                                                                                                                                                                                                                                                                     ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the encoded proteins (AA000010-AA01910) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polymetedes are useful in gene therapy, vaccines or peptide therapy. The polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, hammacomodulatory activity and activity, tissue growth factor activity, immunomodulatory activity and activity and may be useful in the diagnosis and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Isolated nucleic acids and polypeptides, useful for preventing diagnosing and treating e.g. leukemia, inflammation and immune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopolesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorders; arthritis; inflammation.
The invention relates to a method of treating or identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to human polynucleotides (AAI79941-AAI93841) and
                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                     1;
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                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                        Score 43.5; DB 3;
Pred. No. 1.8e+06;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA011208 standard; protein; 131 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human polypeptide SEQ ID NO 25100.
                                                                                                                                                                                                                                                                                                                                                        80.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-FEB-2001; 2001WO-US004927.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-FEB-2000; 2000US-00515126.
18-MAY-2000; 2000US-00577409.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tang YT, Liu C, Drmanac RT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 87.5 es 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GYWG-GYW 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-514838/56.
N-PSDB; AAI91139.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GYWGKGYW 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200164835-A2.
                                                                                                                                                                                                                                                                                                                 Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA011208;
                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
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(first entry)

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Antisense; prokaryotic essential gene; cell proliferation; drug design.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense nucleic acids, useful for identifying proteins or scre
for homologous nucleic acids required for cellular proliferation to
isolate candidate molecules for rational drug discovery programs.
                                                                                                      Protein encoded by Prokaryotic essential gene #25486.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 25; SEQ ID NO 67883; 1766pp; English.
               ABU39959 standard; protein; 211
                                                                                                                                                                                                                                                                                                 06-SEP-2001; 2001US-00948993.
25-OCT-2001; 2001US-0342923P.
08-FEB-2002; 2002US-00072851.
06-MAR-2002; 2002US-0362699P.
                                                                                                                                                                                                                                                        21-MAR-2002, 2002WO-US009107
                                                                                                                                                                                                                                                                                                                                                                            (ELIT-) ELITRA PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-029926/02
                                                                                                                                                                 Pseudomonas putida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB; ACA43829
                                                                                                                                                                                              WO200277183-A2.
                                                                          19-JUN-2003
                                                                                                                                                                                                                                                                                   21-MAR-2001;
                                                                                                                                                                                                                          03-OCT-2002.
                                            ABU39959;
                                                                                                                                                                                                                                                                                                                                                                                                        'nΰ
                                                                                                                                                                                                                                                                                                                                                                                                         Wang
Wall
   ABU39959
                 0
treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pcc_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             efficiently generating and screening humanised antibody with high affinity against a specific antigen. The invention is useful in therapeutics and the diagnosis of diseases such as autofimmune diseases, cancer, transplant rejection, infectious diseases and inflammation. The present sequence is human anti-IL-8 variable heavy chain (VH) antibody
                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                            Human anti-IL-8 variable heavy chain (VH) antibody homologue protein.
                                                                                                                                                                                                                                                                                                                                                                                        Humanised antibody; therapy; diagnosis; autoimmune disease; cancer; transplant rejection; infectious disease; inflammation; variable heavy chain; VH; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screening library of humanized antibody useful in therapeutics, by expressing target protein in yeast expressing humanized antibodies, selecting yeast in which reporter gene is expressed on activation binding of antibody to protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention provides compositions, methods and kits for
                                                                                                                                   ö
                                                                                                      4; Length 131;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 42; DB 8; Length 118;
Pred. No. 1e+02;
0; Mismatches 1; Indels
                                                                                                                                   Indels
                                                                                                                                   ö
                                                                                                      DB
83;
                                                                                                                                  Mismatches
                                                                                                      Score 43;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure, SEQ ID NO 8; 38pp; English.
                                                                                                                                                                                                                                                                      ADN49403 standard; protein; 118 AA.
                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  77.8%;
                                                                                                      79.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-JUN-2003; 2003US-00460595.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-AUG-2002; 2002US-0403296P.
                                                                                     Query Match
Best Local Similarity 83.3%;
5; Conservative
                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GENE-) GENETASTIX CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wei S, Hua SB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-355295/33
                                                                                                                                                                                :|||||
55 HWGGYW 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            homologue protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2004067532-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 118 AA;
                                                                          Sequence 131 AA;
                                                                                                                                                               YWGGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                               01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-APR-2004
                                                                                                                                                                                                                                                                                                 ADN49403;
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                                                                                                                                                                                                                                          RESULT 11
                                                                                                                                                                                                                                                         ADN49403
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screening

Zyskind JW; Xu HH;

Ohlsen KL, Forsyth RA,

Haselbeck R, Yamamoto R,

Malone C, Carr GJ,

Zamudio C, Trawick JD,

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the 613 antisense sequences given in the specification where expression of the 613 antisense sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a promoter operably linked to the nucleic acid encoding a polypeptide whose expression is inhibited by the antisense nucleic acid; (2) a host cell containing the vector; (3) an isolated polypeptide or lie fragment whose expression is inhibited by the antisense nucleic acid; (4) an antibody capable of specifically binding the polypeptide; (5) producing the polypeptide; (6) inhibitied by the autisense nucleic acid; (4) an antibody capable of specifically binding the polypeptide; (5) producing the polypeptide; (6) inhibitied by the autisense nucleic acid; (4) an antibody capable of specifically binding the appointment or that has an activity against a biological pathway to proliferation or that inhibits cellular proliferation; (8) required for proliferation, or that inhibits cellular proliferation of an organism acts; (9) manufacturing an antibiotic; (10) profiling a compound, activity; (11) a culture comprising strains in which the gene product is overexpressed or underexpressed; (12) determining the extent compound, activity; (11) a culture comprising strains in which each of the strains is present in a culture or collection of strains; or (13) identifying the target of a compound that inhibits the compound discovery programs, or for screening for homologous nucleic acids required for proliferation in cells other than S. aureus, S. typhimurium, C. dentifying proteins or acreening for homologous nucleic acids required for proliferation in cells other than S. aureus, S. typhimurium, C. preumoniae or P. acruginosa. The present sequence is encoded by one of the target proxaryoric essential genes. Note: The sequence data for this parent did not form at directly from MIPO at the sequences are aciditied in electronic format directly from MIPO at sequences.
The invention relates to an isolated nucleic acid comprising any the 6213 antisense sequences given in the specification where exp
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Gaps

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5; Conservative

Best Loc Matches

YWGNYW 106

101

RESULT 12

2 YWGGYW 7

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA encoding a single chain variable region polypeptide which binds CD19
                  Gaps
                                                                                                                                                 CD19; antibody; variable region; B43; SJ25C1; BLX3; targeting; cytotoxin conjugate; cancer treatment; leukaemia; B cell lymphoma; variable; heavy; light chain.
                  ö
   Length 211;
                  1; Indels
                                                                                                                                 Anti-CD19 antibody BLY3 single chain variable region.
Score 42; DB 6; I
Pred. No. 1.8e+02;
; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Uckun FM;
                                                                                                                                                                                                                                                                                                                 115. .129
/label= linker
130. .243
/label= light_chain
                                                                                                                                                                                                         ...114
|label= heavy chain
                                                                                                                                                                                                Location/Qualifiers
                                                                                    AAW09436 standard; protein; 243 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wang D,
77.8%;
                                                                                                                                                                                                                                                                            CDR2
                                                                                                                                                                                                                                             CDR1
                                                                                                                                                                                                                                                                                   63. .94
/label= FR3
                                                                                                                                                                                                                                                                                                    5. .114
|abel= CDR3
                                                                                                                                                                                                                                                                                                                                                                                               83. .189
label= CDR2
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                                                                                                                                                                                                                                                                                                                                                               53. .167
label= CDR1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95US-00443408
                                                                                                                                                                                                                                                                                                                                                130. .152 /
/label= FR1
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/label= CDR3
                                                                                                                                                                                                                                                      2. .45
label= FR2
                                                                                                                                                                                                                                                                                                                                                                               .68. .182
'label= FR2
                                                                                                                                                                                                                        . .26
label= FR1
                                                                                                                   (first entry)
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|abel= FF
                 5; Conservative
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/label= (
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/label= (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (MINU ) UNIV MINNESOTA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1997-042642/04.
N-PSDB; AAT47734.
                                             GFWRGYW 42
        Best Local Similarity
Matches 5; Conserv
                               1 GYWGGYW 7
                                                                                                                  23-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9636360-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L5-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kersey JH,
                                                                                                                                                                                Synthetic
                                              36
                                                                                                    AAW09436;
Query Match
                                                                                                                                                                                                                                                                                                                  Peptide
                                                                                                                                                                                                                                                                                                                                              Region
                                                                                                                                                                                                                                                                    Region
                                                                                                                                                                                                       Domain
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                                                                     RESULT 13
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                                                                                                            t
                                                                AAW09436 represents a single chain variable region polypeptide (heavy chain-linker-light chain) of anti-CD19 antibody BLY3. Single chain polypeptides were conjugated to at least one cytotoxic agent and used target the agent(s) to cancerous cells expressing CD19. The immunoconjugates can be used treatment of cancer, especially leukaemia and B-cell lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antibacterial, fungicide, insecticide, polymorphism, genetic analysis, detection, food, gene expression, plant, animal, microorganism, toxin, antibiotic, biopesticide, virulence factor, disease model, plague,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genomic sequence of Photorhabdus luminescens and encoded polypeptides, useful e.g. as therapeutic antimicrobials and agricultural pesticides.
                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Danchin A;
                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                               Length 243;
 used in the treatment of leukaemia and B-cell lymphoma.
                                                                                                                                                                                                                                                                1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kunst F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Photorhabdus luminescens protein sequence #716.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Frangeul L,
                                                                                                                                                                                                                             Score 42; DB 2;
Pred. No. 2e+02;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 2; SEQ ID NO 716; 1205pp; French.
                                Claim 2; Page 105-106; 143pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                        ABM67619 standard; protein; 447 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Glaser P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (INSP ) INST PASTEUR.
(CNRS ) CNRS CENT NAT RECH SCI.
                                                                                                                                                                                                                           77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-FEB-2002; 2002WO-IB003040.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-FEB-2001; 2001FR-00001659.
                                                                                                                                                                                                           Query Match
Best Local Similarity 83.3°,
Best Local Similarity 63.3°,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-NOV-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Photorhabdus luminescens,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Taourit S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-148459/14.
                                                                                                                                                                                                                                                                                                                                97 YWGNYW 102
                                                                                                                                                                                                                                                                                                 2 YWGGYW 7
                                                                                                                                                                                              Sequence 243 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      whooping cough.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200294867-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Buchrieser C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-NOV-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Duchand E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABM67619;
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invention

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The invention relates to a method of modulating insulin activity in mammalian cells by administering a peptide that binds the insulin receptor (IR). A composition contenting a peptide, optionally expressed from gene therapy vectors, that binds to Site 1 of IR and an insulin agonist are useful for treating diabetes. Also, peptides that are useful for treating diabetes. Also, peptides that are useful for treating insulin-like growth factor (IGF-) receptor are useful for treating insulin-like growth factor (IGF) sensitive tumours (e.g. of prostate and breast) and diabetic retinopathy, while IGF-1 receptor agonists are useful for treating neurological diseases, including stroke and diabetic neuropathy. The peptides are also useful in screening for compounds that bind to IR or IGF-1 receptor, potential therapeutics and research reagents. Augus0324-AAU90957 represent IR and/or IGF-1 receptor-binding peptides and related amino acid sequences of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytostatic; antidiabetic; neuroprotective; cerebroprotective; ophthalmological; insulin; receptor; gene therapy; diabetes; insulin-like growth factor-1; IGF-1; tumour; prostate; breast; diabetic retinopathy; neurological diseases; stroke; diabetic neuropathy.
               genes, proteins, vectors containing the genes and Ab are also useful therapeutically (to treat microbial infection by bacteria or fungi that are sensitive to P. luminescens-encoded toxins or antibiotics) and as biopesticides. Other uses of the genes and the proteins are as virulence factors and for identifying targets of human diseases for which P. luminescens is a model (particularly plague and whooping cough). This sequence represents one of the isolated P. luminescens proteins
  antibacterials useful as insecticides, bactericides and fungicides. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modulating insulin activity in mammalian cells, for treating e.g. diabetes and tumors, comprises using peptides that bind to insulin or insulin-like growth factor receptors.
                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Insulin/insulin-like growth factor receptor-binding peptide #2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pillutla R, Brandt J;
Ostergaard S, Mandecki WS;
                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                            Length 447;
                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                        77.8%; Score 42; DB 6; I. 71.4%; Pred. No. 3.5e+02; Live 1; Mismatches 1;
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r J, Cheng W,
Hsiao K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 9; Fig 10A-2; 390pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAU90607 standard; peptide; 20 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAR-2000; 2000WO-US008528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-MAR-2000; 2000WO-US008528.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-JUN-2002 (first entry)
                                                                                                                                                                                                                      Query Match
Best Local Similarity 71.4'
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Beasley J, Blume AJ,
Brissette R, Spetzler
Hansen PH, Ravera M,
                                                                                                                                                                                                                                                                                                                                                     147 GFWWGYW 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-025774/03.
                                                                                                                                                                                                                                                                                                            1 GYWGGYW 7
                                                                                                                                                                                   Sequence 447 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200172771-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAU90607;
                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                       AAU90607
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Gaps
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                                                DB 5; Length 20; 29;
                                                                        0; Indels
                                              75.9%; Score 41; DB 100.0%; Pred. No. 29; ive 0; Mismatches
                                                                                                                                                          Search completed: April 18, 2005, 19:50:23 Job time : 73.7907 secs
                                              Query Match 75.9
Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                        13 WGGYW 17
                                                                                                3 WGGYW 7
                        Sequence 20 AA;
SXS
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April 18, 2005, 19:52:14 ; Search time 51.2791 Seconds (without alignments) 45.371 Million cell updates/sec
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1: /cgn2_6/ptodata/1/pubpaa/RcT_RW PUB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/RcT_RW PUB.pep:*

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4: /cgn2_6/ptodata/1/pubpaa/USO6_NEW PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/USO6_NEW PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/USO8_NEW PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/USO8_NEW PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/USO8_NEW PUB.pep:*

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8: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

10: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*

11: /cgn2_6/ptodata/1/pubpaa/USO9_NEW PUB.pep:*

12: /cgn2_6/ptodata/1/pubpaa/USO9_NEW PUB.pep:*

13: /cgn2_6/ptodata/1/pubpaa/USO9_NEW PUB.pep:*

14: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*

15: /cgn2_6/ptodata/1/pubpaa/USO0P_PUBCOMB.pep:*

16: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

17: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

18: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

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19: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

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10: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

10: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*

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10: /cgn2_6/ptodata/1/pubpaa/USIOD_PUBCOMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1421835 seqs, 332370683 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                            OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 2000000000
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence:
                                                                                                                                                                                                                                        Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

	Seguence 48322, A	9632, Ap		143884,	8, Appli	67883, A	1075, Ap			1516, Ap	1516, Ap	1516, Ap	1113, Ap
Description	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
ID	US-10-282-122A-48322	US-10-156-761-9632	US-10-424-599-184877	US-10-437-963-143884	US-10-460-595-8	US-10-282-122A-67883	US-09-962-756-1075	US-10-253-471-1075	US-10-253-493-1075	US-09-962-756-1516	US-10-253-471-1516	US-10-253-493-1516	US-09-962-756-1113
	15	14			15				15			15	10
% Query Match Length DB	440	296	247	141	118	211	20	20	20	26	26	26	40
& Query Match	100.0	88.9	85.2	83.3	77.8	77.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9
Score	54	48	46	45	42	42	41	41	41	41	41	41	41
Result No.	-	7	r	4	S	9	7	œ	6	10	11	12	13

1113, 1113, 24689 745, 745,		Sequence 190607, Sequence 7823, Ap Sequence 151557, Sequence 99, Appl Sequence 99, Appl	Sequence 102, Appl Sequence 102, Appl Sequence 108, Appl Sequence 118, Appl Sequence 111, Appl Sequence 115,	Sequence 110, App. Sequence 122848, Sequence 32, Appl Sequence 45092, A Sequence 181854,	N
-25 -42 -93	0-023-282-745 0-282-122A-478 0-282-122A-502 0-369-493-1129 0-282-122A-495	US-10-424-599-190607 US-10-156-761-7823 US-10-424-599-15557 US-10-345-820-99 US-10-437-963-181262	US-10-345-820-95 US-10-345-820-102 US-10-345-820-105 US-10-345-820-111 US-10-345-820-115	-620-118 -963-1802 -963-1228 -224-32 -701-4509	US-10-369-493-22275 US-10-369-493-6849 US-09-819-241-2 US-10-428-225-2 US-10-751-699-14
15 15 15 15 15 15 15 15 15 15 15 15 15 1	4 C C C C C C C C C C C C C C C C C C C	2112	151 151 151 151 151 151 151 151 151 151	21 14 16 16 16	15 16 16 16
40 40 105 105	396 396 400 400 803	141 3441 543 551		554 576 585 587 591	602 1039 1827 1827 1827
75.9	75.9	444444 444444 444444	44444	. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.47 1.47 1.47 1.1.47
4444	4 4 4 4 4	44444	44444	44444	4 4 4 4 4 0 0 0 0 0
14 15 17 18	22 23 23 23 23	4 2 2 2 2 2 4 2 3 7 8 2	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	, www. ww. ww. ww. ww. ww. ww. ww. ww. w	4 4 4 4 2 6 4 8 5 .

### ALIGNMENTS

US-10-282-122A-48322
; Sequence 48322, Application US/10282122A
; Publication No. US20040029129A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Wand, Liangsu
APPLICANT: Wandlone, Cherryl
APPLICANT: Carlos
APPLICANT: Wall, Daniel
APPLICANT: Wall, Daniel
APPLICANT: Wall, Daniel
APPLICANT: Carr
APPLICANT: Wall, Daniel
APPLICANT: Yender, John
APPLICANT: Yengence, Robert
APPLICANT: Robert
APPLICANT: Yengence, Volon, WARRER: GO/200, 200
FRIOR FILING DATE: 2000-03-21
FRIOR APPLICATION NUMBER: GO/200, 347
FRIOR APPLICATION NUMBER: GO/200, 347
FRIOR APPLICATION NUMBER: GO/200, 347
FRIOR APPLICATION NUMBER: GO/203, 343
FRIOR APPLICATION NUMBER: G

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85.2%;
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SEQ ID NO 143884
                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 85.7
Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Oryza sativa
                                                                                  ORGANISM: Glycine max FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                           109 GYWGRYW 115
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Best Local Similarity
Matches 6; Conserv
                                                                                                                             NAME/KEY: unsure
                         SEQ ID NO 184877
LENGTH: 247
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: Excelled R
APPLICANT: Shou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53223) B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
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        PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
LENGTH: 440
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                                                                                                                                                                                                                                                                                                                           0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: SHIRAWA, HINOSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SHRAKI, YOSHIYUKI
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION INVEL POLYNUCLEOTIDES
FILE REPERENCE: 249-262
CURRENT APPLICATION NUMBER: US/10/156,761
CURRENT APPLICATION NUMBER: US 2001-204089
PRIOR APPLICATION NUMBER: JP 2001-204089
PRIOR PILING DATE: 2001-05-30
PRIOR PILING DATE: 2001-05-30
PRIOR PILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
SEQ ID NO 9632
LENGTH: 296
                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                   100.0%; Score 54; 100.0%; Pred. No. 7
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 184877, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 9632, Application US/10156761 Publication No. US20030119018A1 GENERAL INFORMATION:
APPLICANT: OMURA, SATOSHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Streptomyces avermitilis
US-10-156-761-9632
                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Bacteroides fragilis
FILING DATE: 2000-12-22
                                                                                                                                                                                                                                                                               Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
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Best Local Similarity 85.7
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US-10-282-122A-48322
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Sequence 8, Application US/10460595
Publication No. US20040067532A1
GENERAL INPORMATION:
APPLICANT: Zhu, Li,
APPLICANT: Wei, Shuanghong
APPLICANT: Wei, Shuanghong
APPLICANT: Wei Shuanghong
APPLICANT: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)8
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
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Pred. No. 59;
0; Mismatches 1; Indels
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                                                                                           FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_13795C.1.pep
US-10-424-599-184877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: Clone ID: PAT_MRT4530_4474C.1.pep
US-10-437-963-143884
LOCATION: (1)..(247)
OTHER INFORMATION: unsure at all Xaa locations
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Pred. No. 52;
0; Mismatches
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CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: US 60/403,296
PRIOR FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 143884, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Wu, Wei
APPLICANT: Barbazuk, Brad
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SOFTWARE: Patentin version 3.1

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ITLE OF INVENTION: Identification of Essential Genes in Microorganisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 78614
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                                                                                                                                              Score 42; DB 15; Length 118;
Pred. No. 1.2e+02;
0; Mismatches 1; Indels
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Pred. No. 1.8e+02;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 67883, Application US/10282122A Publication No. US20040029129A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR PILING DATE: 2000-05-26
PRIOR PELING DATE: 2000-09-06
PRIOR PILING DATE: 2000-09-06
PRIOR PILING DATE: 2000-09-06
PRIOR PILING DATE: 2000-09-06
PRIOR PELING DATE: 2000-09-06
PRIOR PILING DATE: 2000-09-06
PRIOR PILING DATE: 2000-10-23
PRIOR PILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR PILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR PILING DATE: 2001-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Mang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith -
APPLICANT: Trawick, John
APPLICANT: Famamoto, Robert
APPLICANT: Forsyth, R.
                                                                                                                                              Query Match 77.8%;
Best Local Similarity 83.3%;
Matches 5; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin version 3.1
SEQ ID NO 67883
LENGTH: 211
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Best Local Similarity 71.4%;
Matches 5; Conservative
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US-10-282-122A-67883
                                            TYPE: PRT
; ORGANISM: Homo sapiens
US-10-460-595-8
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SEQ ID NO 8
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Sequence 1075, Application US/10253471

Publication No. US20030236190A1

GENERAL INFORMATION:

APPLICANT: PILLUTLA, RENUKA et al.

TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS

FILE REFRENCE: 1878-4057

CURRENT APPLICATION NUMBER: US/10/253,471

CURRENT APPLICATION NUMBER: 09/962,756

PRIOR APPLICATION NUMBER: 09/962,756

PRIOR PILING DATE: 2001-09-24

PRIOR FILING DATE: 2000-03-29

PRIOR FILING DATE: 1998-09-02

NUMBER OF SEQ ID NOS: 2227

SOFTUM DATE: 1998-09-02

NUMBER OF SEQ ID NOS: 2227

SEQ ID NO 1075

LENGTH: 20
                                                                                                                                                                                                                                            APPLICANT: GSTERGARD, SOREN
APPLICANT: GSTERGARD, SOREN
APPLICANT: HANGEN, FER HERTZ
TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
FILE REPERENCE: 1878 4051051.
CURRENT APPLICATION NUMBER: US/09/962,756
CURRENT FILING DATE: 2001-09-24
PRIOR APPLICATION NUMBER: 09/538,038
PRIOR PILING DATE: 2000-03-29
PRIOR PELING DATE: 1998-09-02
NUMBER OF SEQ ID NOS: 2227
SOFTWARE PARENT RECEPTOR VALUE OF SEQ ID NOS: 2227
SSQ ID NO 1075
LENGTH: 20
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US-09-962-756-1075
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7 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
7; OTHER INFORMATION: peptide
75-10-253-471-1075
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; Sequence 1075, Application US/09962756; Publication No. US20030195147A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                            BRANDI, JAKOB
GOLDSTEIN, NEIL I.
SPETZLER, JANE
                                                                        APPLICANT: PLILUTLA, RENUKA
APPLICANT: BRISSETTE, RENEE
APPLICANT: BLUME, ARTHUR J.
APPLICANT: SCHAFFER, LAUGE
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Best Local Similarity 100...
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Best Local Similarity
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OTHER INFORMATION: peptide
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US-10-253-493-1516
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Publication No. US20040023897A1

GENERAL INFORMATION:

APPLICANT: PILLUTTA, RENUKA et al.

TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS

FILE REPREMENCE: 1878-4056

CURRENT APPLICATION NUMBER: US/10/253,493

CURRENT FILING DATE: 2001-09-24

PRIOR APPLICATION NUMBER: 09/526,756

PRIOR APPLICATION NUMBER: 09/528,038

PRIOR FILING DATE: 2001-09-24

PRIOR FILING DATE: 2001-03-29

PRIOR APPLICATION NUMBER: 09/146,127

PRIOR FILING DATE: 1998-09-02

NUMBER OF SEQ ID NOS: 2227

SOFTWARE: Patentin Ver. 2.1

LENGTH: 20
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APPLICANT: PILLUTLA, RENUKA
APPLICANT: BLUME, ARTHUR J.
APPLICANT: BLUME, ARTHUR J.
APPLICANT: BLOME, ARTHUR J.
APPLICANT: COLDSTER, LAUGE
APPLICANT: COLDSTEN, MEIL I.
APPLICANT: SPETZLER, JANE
APPLICANT: SPETZLER, JANE
APPLICANT: SPETZLER, JANE
APPLICANT: OSTERGAARD, SOREN
APPLICANT: ON UNDER: US/09/962,756
CURRENT FILING DATE: 2000-09-29
PRIOR PILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 09/538,038
PRIOR FILING DATE: 1958-09-02
NUMBER OF SEQ ID NOS: 2227
SOOTWARE: PATENTIN VET: 2.1
SEQ ID NO 1516
LENGTH: 26
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       Gaps
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     Indels
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  Mismatches
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Publication No. US20030195147A1
GENERAL INFORMATION:
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Best Local Similarity 100.0
Matches 5, Conservative
  5; Conservative
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Matches
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Sequence 1516, Application US/10253471

| Sequence 1516, Application US/10253471
| Sequence 1516, Application US. US20030236190A1
| GENERAL INFORMATION:
| TITLE CALION OF USZ0030236190A1
| TITLE OF INVERTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
| FILE REFERENCE: 1878-4057
| CURRENT APPLICATION NUMBER: US/10/253,471
| FRIOR APPLICATION NUMBER: US/202-09-24
| PRIOR APPLICATION NUMBER: 09/538,038
| PRIOR FILING DATE: 2001-09-24
| PRIOR FILING DATE: 2000-03-29
| PRIOR FILING DATE: 1998-09-02
| NUMBER OF SEQ ID NOS: 2227
| SOPTWARE PATENTIN Ver. 2.1
| SEQ ID NO 1516
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Publication No. US20040023887A1
Fublication No. US20040023887A1
Fublication No. US20040023887A1
FUBREAL INFORMATION:
TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
FILE REPRENCE: 1879-4056
CURRENT APPLICATION NUMBER: US/10/253,493
CURRENT RILING DATE: 2002-09-24
FRIOR FILING DATE: 2001-09-24
FRIOR FILING DATE: 2001-09-24
FRIOR FILING DATE: 2000-03-29
FRIOR PELICATION NUMBER: 09/538,038
FRIOR FILING DATE: 2000-03-29
FRIOR FILING DATE: 2000-03-29
FRIOR FILING DATE: 1998-09-02
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OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: peptide
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Pred. No. 49;
1; Mismatches 1; Indels
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Pred. No. 49;
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MAME/KEY: MOD RES
LOCATION: (19)
OTHER INFORMATION: Unknown amino acid
US-09-962-756-1516
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i OTHER INFORMATION: Unknown amino acid
US-10-253-471-1516
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71.4%;
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ORGANISM: Artificial Sequence
                                                                                                                      Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative
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Best Local Similarity 71.*
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20 GFWGGSW 26
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33 WGGYW 37
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LOCATION: (31)
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US-10-253-493-1113
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APPLICANT: BRISSTTE, RENEE
APPLICANT: BRISSTTE, RENEE
APPLICANT: BLUME, ARTHUR J.
APPLICANT: BUME, ARTHUR J.
APPLICANT: BRANDT, JAKOB
APPLICANT: GOLDSTERR, AND
APPLICANT: GOLDSTERR, JANE
APPLICANT: SPETZLER, JANE
APPLICANT: SPETZLER, JANE
APPLICANT: SPETZLER, JANE
APPLICANT: HANSEN, SOREN
APPLICANT: HANSEN, BR HERTZ
ITTLE OF INVERTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
ITTLE OF INVERTION: UNMBER: US/09/962,756
CURRENT APPLICATION NUMBER: 09/962,756
CURRENT PILING DATE: 2001-09-24
PRIOR APPLICATION NUMBER: 09/46,127
PRIOR APPLICATION NUMBER: 09/146,127
PRIOR APPLICATION NUMBER: 09/146,127
                                                                                                                                     OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: peptide
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LOCATION: (31)
COTHER INFORMATION: Unknown amino acid
US-09-962-756-1113
                                                                                                                                                                                                      NAME/KEY: MOD_RES
LOCATION: (19)
CHER INCRMATION: Unknown amino acid
US-10-253-493-1516
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Publication No. US20030195147A1
GENERAL INFORMATION:
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; Publication No. US20030236190A1
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                                                                                        ORGANISM: Artificial Sequence
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1516
LENGTH: 26
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SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 GFWGGSW 26
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US-10-253-471-1113
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                                                                                                                FEATURE:
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PAPLICANT: PILLUTLA, RENUKA et al.
TITLE OF INVENTION: INSULIN AND IGF-I RECEPTOR AGONISTS AND ANTAGONISTS
FILE REPRENCE: 1878-4057;
CURRENT APPLICATION NUMBER: US/10/253,471
CURRENT FILING DATE: 2002-09-24
PRIOR APPLICATION NUMBER: 09/524,756
PRIOR APPLICATION NUMBER: 09/524,756
PRIOR PILING DATE: 2001-09-24
PRIOR PILING DATE: 2000-09-29
PRIOR PILING DATE: 1000-09-29
PRIOR PILING DATE: 1000-09-29
PRIOR APPLICATION NUMBER: 09/146,127
PRIOR APPLICATION NUMBER: 09/146,127
PRIOR PILING DATE: 1998-09-02
NUMBER OF SEQ ID NOS: 2227
SOFTWARE: PALENTIN Ver. 2.1
SSEC ID NO 1113
LENGTH: 40
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FUDILICATION NO. US20040023887A1
GENERAL INFORMATION:
TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
FILE REPERENCE: 1878-4056
CURRENT APPLICATION NUMBER: US/10/253,493
CURRENT FILING DATE: 2002-09-24
FRIOR APPLICATION NUMBER: 09/962,756
FRIOR FILING DATE: 2001-09-24
FRIOR FILING DATE: 2001-09-24
FRIOR FILING DATE: 2000-03-29
FRIOR FILING DATE: 1998-09-02
FRIOR FILING DATE: 1998-09-02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75.9%; Score 41; DB 15; Length 40; 100.0%; Pred. No. 68; 0; Indels :ive 0; Mismatches 0; Indels
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OTHER INFORMATION: Unknown amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence FEATURE:
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ORGANISM: Artificial Sequence
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1113
LENGTH: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 100.
Matches 5; Conservative
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Tue Apr 19 06:58:37 2005

33 WGGYW 37

g

Search completed: April 18, 2005, 20:29:25 Job time : 52.2791 secs

seq1.rapb

3,

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:

April 18, 2005, 19:38:48 ; Search time 19.5349 Seconds (without alignments) 26.749 Million cell updates/sec

Title: Perfect score:

1 gywggyw 7 Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

513545 segs, 74649064 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Issued\_Patents AA:\*
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*
4: /cgn2\_6/ptodata/1/iaa/RCTUS\_COMB.pep:\*
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*
6: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

		do				
Result No.	Score	Query Match	Query Match Length	DB	ID	Description
-	54	100.0	339	4	US-09-252-991A-26841	Sequence 26841, A
7	45	83.3	500	4	US-09-252-991A-21214	
e	41	75.9	105	4	US-09-205-258-745	
4	41	75.9	571	4	US-09-902-540-14983	
Ω	40	74.1	585	٦	US-08-212-188-4	4
9	40	74.1	585	ო	US-08-970-725-4	4
7	40	74.1	585	ហ	PCT-US95-02708-4	
80	40	74.1	1827	4	US-09-443-780C-14	Sequence 14, Appl
6	40	74.1	1827	4	US-09-079-723-179	
10	39	72.2	1621	ო	US-08-972-927-3	
11	39	72.2	1622	m	US-08-972-927-6	9
12	38	70.4		Н	US-08-241-054-99	6
13	38	70.4		-	US-08-439-817-79	79,
14	38	70.4	12	-4	US-08-485-508-99	66
15	38	70.4		4	US-09-248-796A-22524	225
16	38	70.4	212	4	US-09-543-681A-5065	
17	38	70.4		4	US-09-252-991A-23310	
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19	37	68.5	80	4	US-09-252-991A-22806	"
20	37	68.5	150	4	US-09-371-056-16	Sequence 16, Appl
21	37	68.5	154	4	US-09-902-540-16787	_
22	37	68.5	231	ო	US-08-448-489-19	_
23	37	68.5	231	4	US-09-689-730-19	19,
24	37	68.5	275	4	US-09-371-056-10	10,
25	37	68.5	355	Н	US-08-118-270-11	11,
26	37	68.5	355	ហ	PCT-US93-08528-11	11,
27	37	68.5	489	7	US-08-489-733-6	, ,

Sequence 5, Appli	'n	197	Sequence 14728, A	Sequence 5995, Ap	Seguence 13566, A	Sequence 5403, Ap	Sequence 33627, A	Sequence 48844, A			Sequence 4, Appli	Sequence 4, Appli	Sequence 9, Appli	Sequence 9, Appli	Sequence 9, Appli	Sequence 1677, Ap
US-08-489-733-5	US-08-993-581B-5	US-09-248-796A-19787	US-09-248-796A-14728	US-09-543-681A-5995	US-09-489-039A-13566	US-09-513-999C-5403	US-09-270-767-33627	US-09-270-767-48844	US-08-162-402B-14	US-07-607-538C-4	US-08-162-402B-4	US-09-364-185-4	US-08-271-354-9	US-08-565-861-9	PCT-US94-07658-9	US-09-702-705-1677
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491	491	515	822	359	359	84	136	136	160	218	218	218	246	246	246	250
68.5	68.5	68.5	68.5	9.79	67.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
37	37	37	37	36.5	36.5	36	36	36	36	36	36	36	36	36	36	36
o.	0	디	2	33	3.4	35	36	37	38	39	0	11	42	<del>1</del> 3	14	5
	1 US-08-489-733-5 Seguence 5,	1 US-08-489-733-5 Sequence 5, 2 US-08-993-581B-5 Sequence 5,	5 491 1 US-08-489-733-5 491 2 US-08-993-581B-5 5 451 4 US-08-296A-19787 Sequence	5 491 1 US-08-489-733-5 Sequence 5, 5 491 2 US-08-993-5818-5 Sequence 5, 5 515 4 US-09-248-796A-19787 Sequence 197 6 822 4 US-09-248-796A-14728 Sequence 147	68.5 491 1 US-08-489-733-5 Sequence 5, 68.5 491 2 US-08-993-581B-5 Sequence 5, 68.5 515 4 US-09-248-796A-19787 Sequence 197 68.5 824 US-09-248-796A-14728 Sequence 147 67.6 359 4 US-09-543-681A-5995 Sequence 599	491 1 US-08-409-733-5 Sequence 5, 491 2 US-08-993-5818-5 Sequence 5, 515 4 US-09-248-796A-19787 Sequence 197 822 4 US-09-248-796A-14728 Sequence 147 359 4 US-09-243-681A-5995 Sequence 599 359 4 US-09-489-039A-13566 Sequence 158	68.5 491 1 US-08-489-733-5 Sequence 5, 68.5 491 2 US-08-993-581B-5 Sequence 5, 68.5 515 4 US-09-248-796A-19787 Sequence 15, 68.5 812 4 US-09-248-796A-14728 Sequence 147, 67.6 359 4 US-09-543-681A-5995 Sequence 1467, 6359 4 US-09-489-039A-1356 Sequence 135, 66.7 84 4 US-09-1313-9990-5403 Sequence 599	68.5 491 1 US-08-489-733-5 Sequence 5, 68.5 491 2 US-08-993-581B-5 Sequence 5, 68.5 515 4 US-09-248-796A-19787 Sequence 1976 68.5 822 4 US-09-248-796A-19787 Sequence 147 67.6 359 4 US-09-543-681A-5995 Sequence 147 67.6 359 4 US-09-543-9990-5403 Sequence 599 66.7 84 4 US-09-513-9990-5403 Sequence 530 66.7 136 4 US-09-513-9990-5403 Sequence 540 66.7 136 4 US-09-270-767-33627 Sequence 330	68.5 491 1 US-08.499-733-5 Sequence 5, 68.5 491 2 US-08.99-733-5 Sequence 5, 68.5 515 4 US-09-248-796A-19787 Sequence 197 68.5 515 4 US-09-248-796A-14728 Sequence 197 67.6 359 4 US-09-543-641A-5995 Sequence 547 67.6 359 4 US-09-543-641A-5995 Sequence 540 66.7 84 4 US-09-513-990C-5403 Sequence 540 66.7 136 4 US-09-270-767-33627 Sequence 540 66.7 136 4 US-09-270-767-48844 Sequence 438	68.5 491 1 US-08-489-733-5 Sequence 68.5 491 2 US-08-939-5818-5 Sequence 68.5 515 4 US-09-248-796A-19787 Sequence 68.5 515 4 US-09-248-796A-19787 Sequence 67.6 359 4 US-09-548-786A-1978 Sequence 67.6 359 4 US-09-513-9990-5403 Sequence 66.7 84 4 US-09-513-9990-5403 Sequence 66.7 136 4 US-09-707-78844 Sequence 66.7 136 4 US-09-270-767-48844 Sequence 66.7 160 2 US-08-162-4028-14 Sequence	68.5 491 1 US-08-489-733-5 Sequence 68.5 491 2 US-08-991-5818-5 Sequence 68.5 49.1 2 US-08-991-5818-5 Sequence 68.5 49.1 2 US-09-248-796A-19787 Sequence 67.6 359 4 US-09-543-681A-5995 Sequence 66.7 84 4 US-09-489-039A-1356 Sequence 66.7 136 4 US-09-210-767-33627 Sequence 66.7 136 4 US-09-210-767-38624 Sequence 66.7 136 4 US-09-210-767-38624 Sequence 66.7 136 4 US-09-210-767-38624 Sequence 66.7 138 4 US-09-210-767-38624 Sequence 66.7 138 4 US-09-210-767-38624 Sequence 66.7 138 4 US-09-210-767-38624 Sequence 66.7 18 1 US-07-607-5862-14 Sequence	68.5 491 1 US-08-489-733-5 Sequence 68.5 491 2 US-08-995-5818-5 68.5 515 4 US-08-995-5818-5 68.5 515 4 US-08-995-5818-5 Sequence 68.5 515 4 US-09-248-796A-19787 Sequence 67.6 359 4 US-09-543-6818-5995 Sequence 67.6 359 4 US-09-543-6818-5995 Sequence 66.7 384 4 US-09-513-9990-5403 Sequence 66.7 36 4 US-09-270-767-4884 Sequence 66.7 36 4 US-09-270-767-4884 Sequence 66.7 36 4 US-09-270-767-4884 Sequence 66.7 318 1 US-09-2382-4 Sequence 66.7 318 1 US-09-2382-4 Sequence 66.7 318 1 US-07-075-382-4 Sequence 66.7 318 2 US-08-162-4028-14 Sequence 66.7 318 2 US-08-162-4028-4 Sequence	68.5 491 1 US-08.499-733-5 Sequence 5, 68.5 491 1 US-08.499-733-5 Sequence 5, 68.5 515 4 US-09-248-796A-19787 Sequence 197 68.5 515 4 US-09-248-796A-19787 Sequence 197 67.6 359 4 US-09-248-796A-1978 Sequence 197 67.6 359 4 US-09-543-681A-5995 Sequence 599 66.7 84 4 US-09-489-039A-1356 Sequence 590 66.7 136 4 US-09-489-1356 Sequence 540 66.7 136 4 US-09-270-767-48844 Sequence 44, 66.7 218 1 US-07-607-538C-4 Sequence 14, 66.7 218 2 US-08-162-402B-4 Sequence 4, 66.7 218 4 US-09-364-185-4 Sequence 4, 56.7 218 4 US-09-364-185-4	68.5 491 1 US-08-489-73-5 Sequence 5, 68.5 491 2 US-08-993-581B-5 Sequence 5, 68.5 15 4 US-09-248-796A-19787 Sequence 5, 68.5 15 4 US-09-248-796A-19787 Sequence 14 67.6 359 4 US-09-248-796A-1978 Sequence 14 67.6 359 4 US-09-248-039A-1356 Sequence 59 67.7 84 4 US-09-513-999C-5403 Sequence 54 66.7 136 4 US-09-270-767-48844 Sequence 48 66.7 136 4 US-09-270-767-48844 Sequence 48 66.7 18 1 US-07-607-538C-4 Sequence 44 66.7 218 1 US-07-607-538C-4 Sequence 4, 66.7 218 2 US-08-162-402B-4 Sequence 4, 66.7 218 2 US-08-162-402B-4 Sequence 4, 66.7 218 1 US-07-607-538C-4 Sequence 4, 66.7 218 1 US-07-607-538C-4 Sequence 6.7 218 2 US-08-162-402B-4 Sequence 6.7 218 1 US-07-607-538C-4 Sequence 6.7 218 2 US-08-121-354-9 Sequence 9, 66.7 218 2 US-08-271-354-9 Sequence 9,	68.5 491 1 US-08-489-73-5 Sequence 5, 68.5 491 1 US-08-499-581B-5 Sequence 5, 68.5 515 4 US-09-248-796A-19787 Sequence 15, 68.5 515 4 US-09-248-796A-19787 Sequence 16, 7. 55 4 US-09-248-796A-19787 Sequence 14, 67.6 359 4 US-09-54-681A-5995 Sequence 14, 66.7 36 4 US-09-54-681A-5995 Sequence 15, 67.7 36 4 US-09-513-990C-5403 Sequence 15, 67.7 36 4 US-09-270-767-33627 Sequence 14, 66.7 36 4 US-09-270-767-3464 Sequence 14, 66.7 318 2 US-08-162-402B-4 Sequence 4, 66.7 218 1 US-07-607-538C-4 Sequence 4, 66.7 218 1 US-09-364-185-4 Sequence 4, 66.7 246 1 US-09-364-185-4 Sequence 4, 66.7 246 1 US-08-565-861-9 Sequence 9, 66.7 246 2 US-08-565-861-9	68.5 491 1 US-08-489-733-5 Sequence 68.5 491 1 US-08-489-733-5 Sequence 68.5 515 4 US-08-995-5818-5 Sequence 68.5 515 4 US-09-248-796A-19787 Sequence 67.6 559 4 US-09-543-681A-5995 Sequence 67.6 559 4 US-09-543-681A-5995 Sequence 66.7 136 4 US-09-513-999-5403 Sequence 66.7 136 4 US-09-513-999-5403 Sequence 66.7 136 4 US-09-270-767-48844 Sequence 66.7 136 4 US-09-162-4028-14 Sequence 66.7 218 1 US-08-162-4028-4 Sequence 66.7 218 4 US-09-364-185-4 Sequence 66.7 246 1 US-08-162-4028-4 Sequence 66.7 246 1 US-08-162-4028-4 Sequence 66.7 246 2 US-08-162-4028-4 Sequence 66.7 246 2 US-08-162-4028-5 Sequence 66.7 246 2 US-08-265-861-9 Sequence 66.7 246 2 US-08-555-861-9 Sequence 66.7 246 5 US-08-555-861-9 Sequence 66.7 246 5 US-08-555-861-9 Sequence 66.7 246 5 US-08-555-861-9 Sequence

### ALIGNMENTS

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RESULT 2
US-09-252-991A-21214

i Sequence 21214, Application US/09252991A

i Sequence 21214, Application US/09252991A

i Retent No. 6551795

i GENERAL INFORMATION:

i TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

i TITLE OF INVENTION: NUCLEIC ACID AND THERAPEUTICS

i TITLE OF INVENTION: ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

i TITLE OF INVENTION: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

i CURRENT APPLICATION NUMBER: US 60/074,788

i PRIOR APPLICATION NUMBER: US 60/074,788

i PRIOR APPLICATION NUMBER: US 60/094,190

i PRIOR FILING DATE: 1998-07-27

i NUMBER OF SEQ ID NOS: 33142

i LENGTH: 500

i LENGTH: 500

i LENGTH: 500

i LENGTH: 500
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Sequence 26841, Application US/09252991A

Sequence 26841, Application US/09252991A

Sequence 26841, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

TITLE OF INVENTION: APPLICATION NUMBER: US 60/074,788

FRICR PELICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-02-18

PRIOR PELING DATE: 1998-07-27

SEQ ID NOS EQ ID NOS: 33142
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       261 GYWGGYW 267
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Sequence 14983, Application US/09902540
| Batent No. 683347
| GENERAL INFORMATION:
| APPLICANT: Goldman, Barry S.
| APPLICANT: Hinkle, Gregory J.
| APPLICANT: Alater, Steven C.
| APPLICANT: Wiegand, Roger C.
| TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(1544)B
| CURRENT APPLICATION NUMBER: US/09/902,540
| CURRENT FILING DATE: 2001-07-10
| PRIOR APPLICATION NUMBER: 60/217,883
| PRIOR PELICATION NUMBER: 60/217,883
| PRIOR PELICATION NOS: 16825
| SEQ ID NOS: 16825
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 41; DB 4; Length 105;
Pred. No. 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Mismatches
BARLIER FILING DATE: 1997-06-06

BARLIER APPLICATION NUMBER: 60/049,374

BARLIER APPLICATION NUMBER: 60/048,917

BARLIER PRILING DATE: 1997-06-06

BARLIER PRILING DATE: 1997-06-06

BARLIER PRILING DATE: 1997-06-06

BARLIER PILING DATE: 1997-06-06

BARLIER APPLICATION NUMBER: 60/048,973

BARLIER PILING DATE: 1997-06-06

BARLIER PILING DATE: 1998-07-30

NUMBER OF SEQ ID NOS: 1227

SEQUEWARE: PAPELICATION NUMBER: 60/094,657

SEQUEWARE: PAPELICATION NUMBER: 60/094,657
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; ORGANISM: Myxococcus xanthus
US-09-902-540-14983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | |||:|
11 GIWGGWW 17
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Best Local Similarity
Matches 5; Conserv
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US-09-902-540-14983
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0
                                                                                                      Query Match 83.3%; Score 45; DB 4; Length 500; Best Local Similarity 85.7%; Pred. No. 38; Matches 6; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                      1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION 207 Human Secreted Proteins TITLE OF INVENTION 207 Human Secreted Proteins FILIE REFRENCE: PSDO7PI
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER FILING DATE: 1998-06-06
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,896
EARLIER FILING DATE: 1997-06-06
EARLIER PILING DATE: 19
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APPLICATION UNMERS: 60/049,019
FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,970
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FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,915
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APPLICATION NUMBER: 60/048,972
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FILING DATE: 1997-06-06
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-205-258-745
; Sequence 745, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
   ; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ILING DATE: 1997-06-06
                                                                                                                                                                                                                                                                                                                      331 GYWGGRW 337
                                                                                                                                                                                                                                                    1 GYWGGYW 7
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EARLIER
EARLIER
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EARLIER
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EARLIER
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Gaps

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COUNTRY: U.S.
COUNTRY: U.S.
COUNTRY: U.S.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Percentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/02708
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: AUGRBACH, DEFREY I
REGISTRATION NUMBER: 7493-006
REGISTRATION NUMBER: 7493-006
REGISTRATION S93-7451
TELEPHONE: (202) 383-7451
TELEPHONE: (202) 383-7451
TELEPHONE: (202) 383-610
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: BECKER, JEFFREY M.
APPLICANT: STACEY, GARY
TITLE CO INVENTION: PLANT PEPTIDE TRANSPORT GENE
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESSE;
ADDRESSEE: HOWREY & SIMON
STREET: 1299 PENNSYLVANIA AVE., N.W.
                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8394
TELEPHONE: 215-875-8394
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : 585 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 585 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      109 YWGRYW 114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 4, Application US/08970725
; Sequence 4, Application US/08970725
; Patent No. 6000542
; GENERAL INFORMATION:
    APPLICANT: Backer, Jeffrey M.
; APPLICANT: Stacey, Gary
; TILE OF INVENTION: PLANT PEPTIDE TRANSPORT GENE
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
    ADDRESSEE: WEISER & ASSOCIATES
; STREET: 230 South Fifteenth Street, Suite 500
; STREET: PA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                   ADDRESSER: HOWREY & SIMON
STRET: 1299 PENNSYLVANIA AVE., N.W.
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZID: 20004
COMPUTER READALE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/212,188
FILING DATE:
                                                                                                                          Sequence 4, Application US/08212188
Patent No. 5689019
GENERAL INFORTION:
APPLICANT: BECKER, JEFFREY M.
APPLICANT: STACEY, GARY
TITLE OF INVENTION: PLANT PEPTIDE TRANSPORT GENE
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: AUERBACH, JEFREY I
REGISTRATION NUMBER: 32,680
REFERENCE/DOCKET NUMBER: 7493-006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 383-7451
TELEPHONE: (202) 383-610
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 585 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ...vavisM: Arabidopsis thalliana IMMEDIATE SOURCE: CLOWE. ...
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Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      109 YWGRYW 114
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134 WGGYW 138
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COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: TBM FO Compartible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/970,725
FILING BATE: 14-NOV-1997
CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 372.6601P
                                                                                                                                                                FILING DATE: 14-NOV-1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,188
FILING DATE: 16-MAR-1994
ATTORNEY AGENT INFORMATION:
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seql.rai

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RESULT 10
US-08-972-927-3

i Sequence 3, Application US/08972927

j Patent No. 6166290

general INFORMATION:
APPLICANT: Rea, Philip A
APPLICANT: Lu, Yu-Ping
APPLICANT: Lu, Ze-Sheng

TITLE OF INVENTION: GLUTATHIONE-S-CONJUGATE TRANSPORT IN
TITLE OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1827;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONDITAT: US
CONDITAT: US
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 60/031,040
FILING DATE: 18-NOV-1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/031,040
FILING DATE: 18-NOV-1996
PRIOR APPLICATION NUMBER: US 60/061,328
PILING DATE: 08-CCT-1997
APPLICATION NUMBER: US 60/061,328
PILING DATE: 08-CCT-1997
ATORNEY AGENT INFORMATION:
NAME: DOYLE LEARY Ph.D., Kathryn
REGISTRATION NUMBER: 36,317
REFERENCE/DOCKET NUMBER: 3596-12UZ
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C. STREET: One Commerce Square, 2005 Market Street, STREET: Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 40; DB 4; I
Pred. No. 6.5e+02;
1; Mismatches 1;
                                                       OPERATING SYSTEM: DOS
SOFTWARE: FastSEO Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/079,723
FILING DATE:
CLASSIFICATION:
NAME: Misrock, S. Lealie
REFERENCE/DOCKET NUMBER: 1101-219
TELECHONE: 212-790-9090
TELECHONE: 212-790-9090
TELECHONE: 212-790-9090
TELECHONE: 212-86-9741
INFORMATION FOR SEQ ID NO: 179:
SEQUENCE CHARACTERISTICS:
LENGTH: 1827 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative
                MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1827 amino acids
TYPE: amino acid
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , MOLECULE TYPE: peptide US-09-079-723-179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Philadelphia
STATE: Pennsylvania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1491 GRWGGHW 1497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unknown
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                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14, Application US/09443780C
Patent No. 669973
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Seveso, Michela
TITLE OF INVENTION: Antibodies To Peptidés That Target GIT Receptors And Related Meth
FILE REFERENCE: E1067/20037, 780C
CURRENT APPLICATION NUMBER: US/09/443,780C
CURRENT APPLICATION NUMBER: US 60/109,036
PRIOR FILING DATE: 1999-11-19
NUMBER OF SEQ ID NOS: 84
SOFTMARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Alvarez, Vernon L.
APPLICANT: Alvarez, Vernon L.
APPLICANT: Lambkin, Imelda J.
APPLICANT: Lambkin, Imelda J.
APPLICANT: Singleton, Judith
APPLICANT: Singleton, Catherine A.
APPLICANT: Cagney, Gerard M.
APPLICANT: Carer, John M.
APPLICANT: Carer, John M.
TITLE OF INVENTION: INTESTINAL TRACT (GIT) TRANSPORT RECEPTORS AND RELATED METHODS
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                        ö
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Pred. No. 6.5e+02;
1; Mismatches 1; Indels
                                                                                                                                                                                      74.1%; Score 40; DB 5; Length 585; 83.3%; Pred. No. 2.3e+02; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
                                                         URGANISM: Arabidopsis thalliana
IMMEDIATE SOURCE:
CCLONE: ATPTR2Bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 179, Application US/09079723
Patent No. 6703362
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pennie & Edmonds LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTHER INFORMATION: hSI receptor US-09-443-780C-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative
                                                                                                                                                                                                          Best_Local Similarity 83.3
Matches 5; Conservative
MOLECULE TYPE: protein HYPOTHEICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | |||:|
1491 GRWGGHW 1497
                                                                                                                                                                                                                                                                                                                    109 YWGRYW 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 14
LENGTH: 1827
TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                         2 YWGGYW 7
                             HYPOTHETICAL: NO ORIGINAL SOURCE: ORGANISM: Aral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10036
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                                                                                                                              PCT-US95-02708-4
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ZIP: 100
                                                                                                                                                                                      Query Match
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APPLICANT: Carita, Steven E.
APPLICANT: Cwirls, Steven E.
APPLICANT: Cwirls, Steven E.
APPLICANT: Cwirls, Steven E.
APPLICANT: Coler, William J.
APPLICANT: Martens, Christine L.
APPLICANT: Martens, Christine L.
APPLICANT: Ruhland-Fritsch, Beatrice
TITLE OF INVENTION: Peptides and Compounds That Bind
TITLE OF INVENTION: Selectine Including Endothelium Leukocyte Adhesion
TITLE OF INVENTION: Molecule 1
NUMBER OF SEQUENCES: 169
CORRESPONDENCE ADDRESS:
ADDRESSEE: Burns, Doane, Swecker & Mathis
STREET: 699 Prince Street
                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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  66.7%; Pred. No. 8.1e+02; ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Elem PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/241,054
FILING DATE: 11-MAY-1994
CLASSIFICATION DATA:
APPLICATION NUMBER: US 08/057,295
FILING DATE: 05-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/881,395
FILING DATE: 06-MAY-1992
ATONNEY/AGENT INFORMATION:
NAME: GETAID F. SWASS
REGISTRATION NUMBER: 30,113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 38; DB 1;
Pred. No. 12;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 30,113
REPERENCE/DOCKET NUMBER: 000324-002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-7400
                                                                                                                                                                                                                                                                                     ; Sequence 99, Application US/08241054; Patent No. 5643873; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       70.4%;
71.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 699 Prince Street
CITY: Alexandria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 12 amino acids
  Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 415-854-8275
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 70.4
Best Local Similarity 71.4
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                          303 WWGGFW 308
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STRANDEDNESS: si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: Virginia
COUNTRY: USA
ZIP: 22313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 GYWGGYW 7
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                                                                                   2 YWGGYW 7
                                                                                                                                                                                                                               RESULT 12
US-08-241-054-99
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US-08-439-817-79
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ADDRESSEE: ADDRESSEE:
ADDRESSEE: One Commerce Square, 2005 Market Street, 22nd
STREET: One Commerce Square, 2005 Market Street, 22nd
STREET: Ploor
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: US
ZIP: 19103-708
COMPUTER: LBM PC compatible
COMPUTER: LBM PC co
                                                                                                                                                                                                                                                                                                                                             Score 39; DB 3; Length 1621;
Pred. No. 8.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               72.2%; Score 39; DB 3; Length 1622;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Rea, Philip A
APPLICANT: Lu, Yu-Ping
APPLICANT: Lu, Ze-Ping
TITLE OF INVENTION: GLUTATHIONE-S-CONJUGATE TRANSPORT IN
TITLE OF INVENTION: PLANTS
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                      2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 6, Application US/08972927
Patent No. 6166290
                                                  TELEX: 831-494
INFORMATION FOR SEQ 'ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1621 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                             72.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: 831-494
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1622 amino acids
215-965-1284
215-567-2991
                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 66.7
Matches 4; Conservative
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STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                            TOPOLOGY: linear
MOLECULE TYPE: protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : | | | : |
303 WWGGFW 308
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TELEPHONE: 7
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                                                     APPLICANT: Barrett, Ronald W.
APPLICANT: Cwirla, Steven E.
APPLICANT: Dower, William J.
APPLICANT: Roller, Kerry J.
APPLICANT: Lee, Jung
APPLICANT: Martens, Christine L.
APPLICANT: Ruhland-Fritsch, Beatrice
TITLE OF INVENTION: Peptides and Compounds That Bind
TITLE OF INVENTION: Selectins Including Endothelial Leukocyte Adhesion
TITLE OF SEQUENCES: 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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Pred. No. 12;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                  ADDRESSENCE Affymax Technologies, NV
STREET: Affymax Technologies, NV
STREET: Affymax Technologies, NV
CIVY: Palo Alto
STATE: California
CUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE: L2-MAY-1995
FILING DATE: 12-MAY-1995
PRIOR APPLICATION NUMBER: US 08/241, 054
FILING DATE: 11-MAY-1994
PRIOR APPLICATION NUMBER: US 08/057, 295
PRIOR APPLICATION NUMBER: US 08/057, 295
FILING DATE: 05-MAY-1993
PRIOR APPLICATION NUMBER: US 07/081, 395
FILING DATE: C6-MAY-1993
PRIOR APPLICATION NUMBER: US 07/081, 395
FILING DATE: C6-MAY-1993
APPLICATION NUMBER: US 07/081, 395
FILING DATE: C6-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: SLEVENIS, LAURENIE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Stevens, Lauren L.
REGISTRATION NUMBER: 36,691
REFERENCE/DOCKET NUMBER: 000324-046/1056.1
TELECOMMUNICATION:
TELEPHONE: 415-496-2300
Application US/08439817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 99, Application US/08485508; Patent No. 5786322; GENERAL INFORMATION; APPLICANT: Barrett, Ronald W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Barrett, Ronald W.
Cwirla, Steven E.
Dower, William J.
Koller, Kerry J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 79: SEQUENCE CHARACTERISTICS: LENGTH: 12 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          70.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 415-424-0832
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STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TOPOLOGY: linear;
; MOLECULE TYPE: peptide
US-08-439-817-79
                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 5; Conserv
                        Patent No. 5728802
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GYWGGYW 7
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US-08-485-508-99
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APPLICANT:
APPLICANT:
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US-09-248-796A-22524
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US-09-248-796A-22524
US-09-248-796A-22524
US-09-248-796A-22524
US-09-248-796A-22524
US-09-248-796A-22524
US-09-248-796A-22524
UNIVENTION: WOLKEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAL TITLE OF INVENTION: POR DIAGNOSTICS AND THERAPEUTICS
UNTENTION: POR DIAGNOSTICS AND THERAPEUTICS
UNTENTION: POR DIAGNOSTICS AND THERAPEUTICS
UNTENTION: 1099-02-12
US-09-02-13
PRIOR APPLICATION NUMBER: US-00/074,725
PRIOR APPLICATION NUMBER: US-00/074,725
PRIOR APPLICATION NUMBER: US-00/096,409
PRIOR FILING DATE: 1998-08-13
PRIOR FILING DATE: 1998-08-13
APPLICANT: Martens, Christine L.
APPLICANT: Maland-Fritsch, Beatrice
TITLE OF INVENTION: Peptides and Compounds That Bind
TITLE OF INVENTION: Selecting including Endothelial Leukocyte Adhesion
NUMBER OF SEQUENCES: 162
CORRESPONDENCE ADDRESS:
ADDRESSEE: Affymax Technological
STREET: 4001 Mirral Technological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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Pred. No. 12;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485,508

FILING DATE: Herewith

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/241,054

FILING DATE: 11-MAY-1994

CLASSIFICATION DATA:

APPLICATION NUMBER: US 08/241,054

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/057,295

FILING DATE: 05-MAY-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/881,395

FILING DATE: 06-MAY-1992

ATORNEY/AGENT INFORMATION:

NAME: SLEWENS, LAUVEN L.

REGISTRATION NUMBER: 36,691

REGISTRATION NUMBER: 36,691

REGISTRATION NUMBER: 36,691

REGISTRATION NUMBER: 36,691

REGISTRATION INFORMATION:

TELEPHONE: 415-496-2300
                                                                                                                                                                                                                                                                                               ADDRESSEE: Affymax Technologies, NV STREET: 4001 Miranda Ave.
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIF: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      70.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 415-424-0832
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 71...
For Si Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide US-08-485-508-99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
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√ Tue Apr 19 06:58:36 2005
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""" ruge Blank (uspto)

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

April 19, 2005, 06:18:13; Search time 44 Seconds (without alignments) 19.681 Million cell updates/sec Run on:

1 xgywgkgyw 9 Title: Perfect score: Sequence: BLOSUM62DX Gapop 10.0 , Gapext 0.5 Scoring table:

283416 Total number of hits satisfying chosen parameters:

283416 seqs, 96216763 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	% Query Match Length	8	SUMMARIES	tion
-	48	80.0	1365	-	BVBYK5	killer toxin resis
7	4	75.0	441	7	F83694	short-chain fatty
ю	•	74.2	83	7	E69903	
4	44.5	74.2	187	N	G83047	_
Ŋ	44	73.3	358	~	H83554	
9	43	71.7	80	N	AC2394	
7	43	71.7	180	~	D83812	
80	43	71.7	470	7	B72567	hypothetical prote
6	43	71.7	1311	7	A56390	mannosyl-glycoprot
10	43	71.7	1312	~	E95006	beta-N-acetylhexos
11	43	71.7	1312	~	A97879	beta-N-acetylhexos
12	42	70.0	181	~	A83915	hypothetical prote
13	42	70.0	196	7	AE2918	acetyltransferase
14	42	70.0	207	7	H97692	conserved hypothet
15	42	70.0	375	~	AI2041	hypothetical prote
16	42	70.0	563	~	A69491	probable formylmet
17	42	70.0	844	7	137079	DNA ligase (ATP) (
18	41	68.3	113	7	PH1663	Ig heavy chain V r
19	41	68.3	145	~	F75337	transposase - Dein
20	41	68.3	1447	7	863669	_
21	40	66.7	102	~	B72742	hypothetical prote
22	40	66.7	194	~	H22845	
23	40	66.7	228	~	826009	
24	40	66.7	250	٦	S70854	Ψ
25	40	66.7	489	~	877357	hypothetical prote
56	40	66.7	495	~	AD1927	hypothetical prote
27	40	66.7	554	-	A28716	saposin precursor
28	40	66.7	589	~	A29476	muscarinic acetylc
29	40	66.7	589	~	B29514	muscarinic acetylc

	mascartiite aceryic	muscarinic acetylc	cyclomaltodextrin	hypothetical prote	probable membrane	G protein-coupled	probable ABC trans	protein F18014.29	acetyltransferase,	conserved hypothet	acetyltransferase,	secretory protein-	probable phosphoes	sugar ABC transpor	hypothetical prote	hypothetical prote
71100	#TTT00	S47572	ALKBG	S73827	867568	JC5808	E95268	B86328	D87288	B97933	A95066	T47883	G83242	H84080	T04561	T36462
c	1	~	-	~	N	~	~	~	7	~	7	~	-	7	7	7
0	200	290	655	741	961	962	273	115	177	185	186	247	270	335	396	499
. 55		66.7	66.7	66.7	66.7	66.7	65.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
•	2	40	40	40	40	40	39.5	39	39	39	39	39	39	39	39	39
6	2	31	32	33	34	32	36	37	38	39	40	41	42	43	44	45

### ALIGNMENTS

RESULT 1 BVBYKS Killer toxin resistance protein KRE5 precursor - yeast (Saccharomyces cerevisiae) NiAlternate names: protein 06254; protein YOR336w C;Atternate names: protein 06254; protein YOR336w C;Species: Saccharomyces cerevisiae C;Date: 30-Sep-1991 #sequence revision 10-May-1996 #text_change 09-Jul-2004 C;Accession: S62066; AS6327; S6724; S71974; S12202 C;Accession: A.G.; Hand, N.J.; Golfang, S.G.; Wolfe, K.H. R;Parle, A.G.; Hand, N.J.; Jubrary, June 1995
A;Description: Sequence of 29 kilobases around the PDR10 locus on the right arm of Sacci A;Reference number: S62058 A;Accession: S62066 A;Molecule type: DNA A;Desiding: 1,115€ 2005
A, Cross-references: UNIPROT:P22023; EMBL:Z49821; NID:g1163062; PIDN:CAA89981:1; PID:g11 R;Meaden, P.; Hill, K.; Wagner, J.; Slipetz, D.; Sommer, S.S.; Bussey, H. Mol. Cell. Biol. 10, 3013-3019, 1990 A, Title: The yeast KRES gene encodes a probable endoplasmic reticulum protein required A, Reference number: A, 54327; MUID:90258992; PMLD:2188106
 A;Accession: A3627 A;Molecule type: DNA A;Residues: 1-581,583-779,'I',781,'IKMKCQKQNISK',794,'K',795-1365 <mba> A;Residues: ESBL:M33556; NID:q471794; PIDN:AAA34725.1; PID:g171795 A;Cross-references: EXBL:M3556; NID:q471794; PIDN:AAA34725.1; PID:g171795 R;Goulding, S.E.; Hand, N.J.; Parle-McDermott, A.G.; Wolfe, K.H.</mba>
A;Molecule type: DNA A;Molecule type: DNA A;Residues: 1-1365 <gou> A;Cross-references: EMBL:Z75244; NID:g1420730; PIDN:CAA99659.1; PID:g1420731; GSPDB:GN0 A;Experimental source: strain \$288C R;Parle-McDermott, A.G.; Hand, N.J.; Goulding, S.E.; Wolfe, K.H.</gou>
Yeast 12, 999-1004, 1996 A;Title: Sequence of 29 kb around the PDR10 locus on the right arm of Saccharomyces cer A;Reference number: S71966, MUID:97051586; PMID:8896263 A;Recession: S71974 A;Status: nucleic acid sequence not shown; translation not shown A;Molecule type: DNA
A; Residues: 1-1365 < PAW> A; Residues: 1-1365 < PAW> A; Cores references: EMBL: Z49821; NID: g1163062; PIDN: CAA89981.1; PID: g1163070 A; Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1995 C; Genetics: A; Gene: SGD: KRE5; MIPS: YOR336w A; Cross-references: SGD: S0005863; MIPS: YOR336w A; Map position: 15R
 C;Function: A;Deatway: (1->6)-beta-D-glucan biosynthesis C;Superfamily: KRE5 protein C;Superfamily: KRE5 protein C;Keywords: endoplasmic reticulum; glycoprotein C;Keywords: signal sequence #status predicted <sig> F;1-17/Domain: signal sequence #status predicted circus predicted <mat></mat></sig>

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77.8%;
            Best Local Similarity 77.8
Matches 7; Conservative
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Best Local Similarity 77.8
Matches 7; Conservative
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Best Local Similarity 66.7-
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108 GGYWG-GYW 115
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52 YGYWG-GYW 59
                                                                                                  1 XGYWGKGYW 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hypothetical protein yodi - Bacillus subtilis
C;Species: Sacillus subtilis
C;Species: Bacillus subtilis
C;Species: Segona
B;Kunst, F:; Ogaaawara, N:; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berter
C; Bron, S; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Charter, S.; Brich, S.; Bruntich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.
Nature 390, 249-256, 1997
A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler
iech, J.; Harwod, C.R.; Henaut, A.; Hibert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.
Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois,
A;Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Mauel
Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Saconlon,
A;Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekfyguchi, J.; Sekwoska, A.; Seror
akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama,
T.; Winters, P.; Winters, P.; Wamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.; Altile: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.
A;Retence number: Reson.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:Q9KFW3; GB:AP001508; GB:BA000004; NID:g10172890; PIDN:BAB04d
A;Experimental source: strain C-125
                                                                                                                                                                                                                                                                                                                                                                                                                                                         C; Species: Bacillus halodurans
C; Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
C; Accession: F83694
R; Takani, H; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hira
Nucleic Acids Res. 28, 4317-4331, 2000
A; Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and A; Reference number: A83650; MUID:20512582; PMID:11058132
                                                                                                                                                                                                                                                                                                                                                                                                                            short-chain fatty acids transporter atoE [imported] - Bacillus halodurans (strain C-125)
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A;Expertinental source: strain 168
C;Genetics:
A;Gene: yod1
F;1362-1365/Region: endoplasmic reticulum retention signal #status predicted
F;115,228,293,457,519,523,604,644,870,1091,1150,1195/Binding site: carbohydrate (Asn)
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                                                                                                                                                              Gaps
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C,Superfamily: conserved hypothetical integral membrane protein HP0693
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                                                                                            Score 48; DB 1;
Pred. No. 21;
2; Mismatches
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                                                                                        h
Similarity 66.7%;
6; Conservative 2
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48 YWGEGFW 54
                                                                                     Query Match
Best Local Similarity
Matches 6; Conserv
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A, Molecule type: DNA
A, Residues: 1-441 <STO>
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74.2%; Score 44.5; DB 2; Length 83;

Query Match

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C;Species: Pseudomonas aeruginosa
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
C;Datesion: G83047
R;Stover, C.K.; Pham, X.O.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Bradman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, I., Lory, S.; Olson, M.V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A,Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathora A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: G83047
A;Accession: G83047
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-187 <STO>
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Cibate: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
CiAccession: H83554
R;Stover, C.K.; Pham, X.O.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Br, adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Fölger, K.R.; Kas, A.; Larbig, K.; Lim., I. Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathr
A;Reference number: A82950; MUID:20437337; PMID:10984043
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A;Molecule type: DNA
A;Residues: 1-558 <STO-
A;Cross-treferences: UNIPROT:0915J3; GB:AE004508; GB:AE004091; NID:g9946611; PIDN:AAG0415
A;Experimental source: strain PAO1
C;Genetics:
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C;Genetics:
A;Gene: PA4793
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C;Species: Nostoc sp. PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
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Pred. No. 10;
1; Mismatches 0;
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Pred. No. 23;
1; Mismatches
Pred. No. 4.8;
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Length 470; 0; Indels

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ore 43; DB 2;
ed. No. 41;
Mismatches 0
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Pred. No.
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55.6%;
                                  Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
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Best Local Similarity 55.6
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869 ISYWSKGWW
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A; Status: preliminary
A; Molecule type: DNA
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A;Residues: 1-470 <KAM>
A;Cross-references: UNIPROT:Q9YAX5; DDBJ:AP000062; NID:g5105244; PIDN:BAA80823.1; PID:g5
A;Experimental source: strain K1
C;Genetics:
A;Gene: APE1820
C;Superfamily: phytoene dehydrogenase
                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:Q8YN63; GB:BA000019; PIDN:BAB76406.1; PID:g17133844; GSPDB:G
A;Experimental source: strain PCC 7120
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R;Kawarabayasi, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takahawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takahawa, H.; Yamazaki, T.; Rudoh, Y.; Jin-no, K.; Takahawa, B.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Yama
                           C;Accession: AC2394

**Kaneko, T.; Nakamura, Y.; Wollk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, G DNA Res. 8, 205-213, 2001.

**DNA Res. 8, 205-213, 2001.

**Aritle: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Ana A; Reference number: AB1807; MUID:21592285; PMID:11759840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R; Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, P.; Hira Nucleic Acids Res. 28, 4317-4331, 2000
A; Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and A; Reference number: A83650; MUID:20512582; PMID:11058132
A; Accession: D83812
A; Status: preliminary
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C:Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Jul-2004 C:Accession: AC2394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypothetical protein APE1820 - Aeropyrum pernix (strain K1)
C;Species: Aeropyrum pernix
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypothetical protein BH1300 [imported] - Bacillus halodurans (strain C-125)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Indels
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Pred. No. 7.7;
1; Mismatches
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Pred. No. 17;
1; Mismatches
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75.08;
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llarity 75.0%;
Conservative
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Best Local Similarity 75.00,
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A Molecule type: DNA
A Residues: 1-180 <STO>
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Best Local Similarity
Matches 6; Conserv
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C;Species: Streptococcus pneumoniae
C;Date: 21.-Unl-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
C;Accession: A56390
R;Clarke, V.A.; Platt, N.; Butters, T.D.
J. Biol. Chem. 270, 8805-8814, 1995
A;Title: Cloning and expression of the beta-N-acetylglucosaminidase gene from Streptocc A;Reference number: A56390; MUID:95238375; PMID:7721787
                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 1-1311 <CLA>
A;Cross-references: UNIPROT:P49610; GB:L36923; NID:g784896; PIDN:AAC41450.1; PID:g78489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Species: Streptococcus pneumoniae
C;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 09-Jul-2004
C;Accession: E95006
R;Tetlelin, H.; Nelson, K.E.; Paulsen, I.T.; Eisen, J.A.; Read, T.D.; Peterson, S.; Heison, J.D.; Umayam, L.A.; White, O.; Salzberg, S.L.; Lewis, M.R.; Radune, D.; Holtzapple, nson, T.; Hickey, E.K.; Holt, I.E.
Science 293, 498-506, 2001
A;Authors: Loftus, B.J.; Yang, F.; Smith, H.O.; Venter, J.C.; Dougherty, B.A.; Morrison A;Title: Complete Genome Sequence of a virulent isolate of Streptococcus pneumoniae.
A;Reference number: A95000; MUID:21357209; PMID:11463916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Residues: 1-1312 <KUR>
A;Cross-references: UNIPROT:P49610; GB:AE005672; PIDN:AAK74246.1; PID:g14971522; GSPDB:
A;Experimental source: strain TIGR4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A97879
beta-N-acetylhexosaminidase (EC 3.2.1.52) [imported] - Streptococcus pneumoniae (strain
mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase (EC 3.2.1.96) precursor - Strep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E95006
beta-N-acetylhexosaminidase [imported] - Streptococcus pneumoniae (strain TIGR4)
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Pred. No. 1.1e+02;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A,Gene: strH
C;Keywords: glycosidase, hydrolase, tandem repeat
F;1-33/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 71.7%; Score 43; DB 2; I Best Local Similarity 55.6%; Pred. No. 1.1e+02; Matches 5; Conservative 2; Mismatches 2.
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A;Molecule type: DNA
A;Residues: 1-196 «KUR»
A;Residues: 1-196 «KUR»
A;Residues: 1-196 «KUR»
A;Experimental source: strain C58 (Dupont)
A;Experimental source: strain C58 (Dupont)
A;Genetics:
A;Genetics:
A;Genetics: Atu2782
A;Map position: circular chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conserved hypothetical protein BH0837 (AP001510) [imported] - Agrobacterium tumefaciens G;Species: Agrobacterium tumefaciens G;Species: Agrobacterium tumefaciens G;Species: Agrobacterium tumefaciens G;Species: Agrobacterium tumefaciens 30-Sep-2001 #text_change 09-Jul-2004 [5,5ccssion: H97692] A;Codner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B., A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum A;Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:Q8UBR8; GB:AE007869; PIDN:AAK88497.1; PID:g15158008; GSPDB:C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Accession: A12041
R; Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguch)
Razaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, t.
DNA Raza, S., 205-213, 2001
A; Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Anr
A; Reference number: AB1807; MUID:21595285; PMID:11759840
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A;Cross-references: UNIPROT:Q8YVT7; GB:BA000019; PIDN:BAB73586.1; PID:g17130977; GSPDB:(
A;Experimental source: strain PCC 7120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypothetical protein all1887 [imported] - Nostoc sp. (strain PCC 7120)
C,Species: Nostoc sp. PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Jul-2004
C;Accession: AI2041
                                                                                                                                                                                                                                                                                                                          Gaps
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25;
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Best Local Similarity 100...
                                                                                                                                                                                                                                                                                                                                                                                                                                        116 YWGKGY 121
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Matches 6; Conserv
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A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-207 <KUR>
                                                                                                                                                                                                                                                                                                                                                                                    3 YWGKGY 8
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                                                                             R.HOSKINS, J.A.; Alborn Jr., W.; Arnold, J.; Blaszczak, L.; Burgett, S.; DeHOff, B.S.; E, R.; Hoskins, J.A.; Alborn Jr., W.; Lefkowitz, E.J.; Lu, J.; Matsushima, P.; McAhren, S.; M. J.; B.S.; E. M.; P.M.; Winkler, M.E.
J. Bacteriol. 183, 5709-5717, 2001
A.Authors: Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, C.; Baltz, R.H.; Jaskunas, S.R.; A.Atitle: Genome of the Bacterium Streptococcus pneumoniae Strain R6.
A.Reference number: A97872, MUID:21429245; PMID:11544234
A.Accession: A97879
A.Astatus: preliminary
A.Molecule type: DNA
A.Residues: 1-1312 < KUR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ritakani, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hira Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Accession: A83915
A;Status: preliminary
A;Molecule type: DNA
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A;Cross-references: UNIPROT:Q9KB15; GB:AP001514; GB:BA00004; NID:g10174613; PIDN:BAB058
A;Cross-references: UNIPROT:Q9KB15; GB:AP001514; GB:BA00004; NID:g10174613; PIDN:BAB058
C;Genetics:
A;Gene: BH2121
C;Superfamily: ribosomal-protein-serine N-acetyltransferase
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C;Species: Agrobacterium tumefaciens
C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004
C;Accession: AE2918
R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I.
R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Khtyavin, T.; Levy, R.; Li, M.; McClell; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
A.Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ster, E.W.
A,Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A,Reference number: AB2577; MUID:21608550; PMID:11743193
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Species: Streptococcus pneumoniae
Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Bacillus halodurans
C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mypothetical protein BH2121 [imported] - Bacillus halodurans (strain C-125)
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70.0%; Score 42; DB
Best Local Similarity 100.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A,Gene: strH
C,Keywords: glycosidase; hydrolase
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Best Local Similarity 55.6
Matches 5; Conservative
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869 ISYWSKGWW 877
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                                                         Accession: A97879
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STRAIN=VPI-5482 / ATCC 29148;

STRAIN=VPI-55058; PubMed=12663928; DOI=10.1126/science.1080029;

XMEDINE=2250568; PubMed=12663928; DOI=10.1126/science.1080029;

XM J., Bjursell M.K., Himrod J., Deng S., Carmichael L.K.,

XM J., Bjursell M.K., Himrod J., Cordon J.I.;

Chiang H.C., Hooper L.V., Gordon J.I.;

XI Agenomic view of the human-Bacteroides thetaiotaomicron symbiosis.";

XI Science 299:2074-2076(2003).

REMBL; ABO16933; AAO76945.1; -

REMBL; ABO16933; AAO76945.1; -

REMBL; ABO16933; PROBEOMA binding.

InterPro; IPR0010375; Peptidase S9:

InterPro; IPR0010375; Rebesmal_S12_3.

RIGERPRO; IPR011042; TolBC.

DR InterPro; IPR011042; TolBC.

DR FROSITE; PS00037; WYB 1; UNKNOWN 1.

PROSITE; PS00055; RIBOSOMAL_S12; UNKNOWN 1.
                        77,4819 bordetella (77,4819 bordetella (72,485 leptospira (86,410 leptospira (86,914 bradyrhizob (86,16) etreptococc (90,16) etreptococc (90,16) etreptococc (90,16) etreptococc (90,16) bacillus ce (73,010 bacillus ce (81,181) bacillus an (81,181) bacillus an (81,181) bacillus an (61,181) bacillus an (61,181)
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0640S3;
25-0CT-2004 (TrEMBLrel. 28, Created)
25-0CT-2004 (TrEMBLrel. 28, Last sequence update)
25-0CT-2004 (TrEMBLrel. 28, Last annotation update)
Putative alanyl dipeptidyl peptidase.
ORFNames=BF3415;
Bacteroides fragilis.
Bacteroides fragilis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacteria, Bacteroidetes, Bacteroides (class); Bacteroidales,
Bacteroidaceae, Bacteroides.
NCBI_TaxID=818;
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01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative alanyl dipeptidyl peptidase.
OrderedLocusNames=BT1838;
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66.7%; Pred. No. 31;
ive 2; Mismatches
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                                                                                                                                                                                          April 19, 2005, 05:59:25 ; Search time 176 Seconds (without alignments) 26.186 Million cell updates/sec
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                        GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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STRAIN=VPI-5482 / ATCC 29148;
STRAIN=VPI-5482 / ATCC 29148;
MEDLINE=22550888; PubMed=12653928; DOI=10.1126/ecience.1080029;
Xu J., Biutsell M.K., Himrod J., Deng S., Carmichael L.K.,
Chiang H.C., Hooper L.V., Gordon J.I.;
"A genomic view of the human-Bacteroides thetaiotaomicron symblosis.";
Science 299:2774-2076(2103).
EMBL; AE016936; AAO77544.1; -.
Complete proteome; Hypothetical protein.
SEQUENCE 210 AA; 23880 MW; 96392CE4D995FF2B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteria, Bacteroidetes, Bacteroides (class); Bacteroidales;
Bacteroidaceae, Bacteroides.
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Pred. No. 18;
1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Thermoplasma acidophilum.
Archaea; Euryarchaeota; Thermoplasmata; Thermoplasmatales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841 AA; 94237 MW; A082DCD732EC3F36 CRC64;
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Last annotation update)
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Last annotation update)
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Pred. No. 44;
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             DOI=10.1128/JB.185.18.5591-5601.2003;
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66.7%;
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Ol-Mryochetical protein.
OrderedLocusNames=BT2437;
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01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
Hypothetical protein Ta0261,
OrderedLocusNames=Ta0261;
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les 6; Conservative
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01-MAR-2001
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Q9HLG7
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Q8A510
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                                                                                                                                                           Kuwahara T., Yamashita A., Hirakawa H., Nakayama H., Toh H., Okada N., Kuhara S., Hattori M., Hayashi T., Ohnishi Y.; "Genomic analysis of Bacteroides fragilis reveals extensive DNA inversions regulating cell surface adaptation."; Proc. Natl. Acad. Sci. U.S. W. 0:0-0(2004).

EMBL; AP006841; BAD50158.1; -. SEQUENCE 845 AA; 95248 MW; 76A36642B8318D76 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=VPI-5482 / ATCC 29148;
MEDLINE225506958; PubMed=12663928; DOI=10.1126/science.1080029;
Ku J., Bjursell M.K., Himcod J., Deng S., Carmichael L.K.,
Chiang H.C., Hooper L.V., Gordon J.I.;
A genomic view of the human-Bacteroides thetaiotaomicron symbiosis.";
Science 299:2074-2076(2003)
EMBL; AE016930; AAO76180.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein.
OrderedLocusNames=BT1073;
Bacteroides thetaiotraomicron.
Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
Bacteroidaceae; Bacteroides.
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Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 845;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
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Pred. No. 32;
2; Mismatches
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MEDLINE=22829867; PubMed=12949112;
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NCBI_TaxID=837;
                                                                                                                                                                                                                                                                                                                                                                                                                                     83.3%;
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Bacteroidaceae; Bacteroides.
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Query Match
Best Local Similarity 66.70,
Accessive 6; Conservative
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Best Local Similarity 66.70,
Conservative 6; Conservative
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721 TSYWGEGYW 729
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SEQUENCE FROM N.A.
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                                                                                                    SEQUENCE FROM N.A.
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10-OCT-2003
10-OCT-2003
05-JUL-2004
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CARBOHYD
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ZBT3 HUMAN
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                                       STRAIN=DSM 1728;
MEDLINE=20479972; PubMed=11029001; DOI=10.1038/35035069;
Ruepp A., Graml W., Santos-Martinez M.-L., Koretke K.K., Volker C.,
Mewes H.-W., Frishman D., Stocker S., Lupas A.N., Baumeister W.;
"The genome sequence of the thermoacidophilic scavenger Thermoplasma acidophilum.";
                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                            Ashbya gossypii (Yeast) (Eremothecium gossypii).
Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Eremothecium.
NCBI_TaxID=33169;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
NCBI_TaxID=4932;
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                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN=ATCC 10895;
Voegeli S.E., Brachat S., Dietrich F.S., Lerch A., Gaffney T.,
Philippsen P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1293;
                                                                                                                                                         Length 748;
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InterPro; IPR000977; DNA_ligase.
InterPro; IPR000886; ER target. S.
PROSITE; PS00697; DNA_LIGASE_Al; UNKNOWN_1.
PROSITE; PS00104; ER TARGET; UNKNOWN 1.
SEQUENCE 1293 AA; 145770 MW; 2FBI77BDD5E93E37 CRC64;
                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                       Philippsen P.;
Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases
                                                                                                   Nature 407:508-513 (2000).

EMBL; AL445063; CAC11406.1; -.

Complete proteome; Hypothetical protein.

SEQUENCE 748 AA; 82250 MW; 73A030A0E217EE39 CRC64;
                                                                                                                                                                                                                                                                                                          Last sequence update)
Last annotation update)
                                                                                                                                                        80.0%; Score 48; DB 2; 66.7%; Pred. No. 56;
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                                                                                                                                                                                                                                                                           PRT; 1293 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           80.0%; Score 48; DB 66.7%; Pred. No. 92; iive 2; Mismatches
                                                                                                                                                                             Mismatches
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 Thermoplasmataceae; Thermoplasma
                                                                                                                                                                                                                                                                                             05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AE016817; AAS52284.1;
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Best Local Similarity 66.7
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                                                                                                                                                                                                                                                                           PRELIMINARY;
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HGYWEEGYW 1180
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530 SNYWGKAYW 538
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Best Local Similarity
                              SEQUENCE FROM N.A.
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          WCBI_TaxID=2303;
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Q759B3;
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SEQUENCE FROM N.A.
MEDLINE=90258892; PubMed=2188106;
Meaden P., Hill K., Wagner J., Slipetz D., Sommer S.S., Bussey H.;
Meaden P., Hill K., Wagner J., Slipetz D., Sommer S.S., Bussey H.;
The yeast KRES gene encodes a probable endoplasmic reticulum protein
required for (1-->6)-beta--glucan synthesis and normal cell growth.";
Mol. Cell. Biol. 10:3013-3019(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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HLDQNEVPETEHFEA -> ILIKMKCQKQNISKAK (in
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R EMBL; Z48921; CAA8981.1; -.

R EMBL; Z4821; CAA8981.1; -.

R EMBL; Z48264; CAA99659.1; -.

R Germonline; 143924; -.

SGD; S000005863; KRE5.

R GG; GO: 00003980; F:UDP-glucose:glycoprotein glucosyltransferas. ..;

InterPro; IPR000886; ER_target_S.

R RGO; GO: 00013980; F:UDP-glucose:glycoprotein glucosyltransferas. ..;

R ROSITE; P800014; ER TARGET. 1.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yeast 12:999-1004(1996).
-!- FUNCTION: Required for (1->6)-beta-D-glucan synthesis and
                                                                                                                                                                                                                                                                                                                                                                                                                     g of
                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. MEDILINE=97051586; PubMed=8896263; Parle-Mcdermott A.G., Hand N.J., Goulding S.G., Wolfe K.H.; Parle-Mcdermott A.G., Hand N.J., Goulding S.G., Wolfe K.H.; Sequence of 29 kb around the PDRIO locus on the right arm c Saccharomyces cerevisiae chromosome XV: similarity to part o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 48; DB 1; Length 1365;
Pred. No. 96;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cell growth.
-!- SUBCELLULAR LOCATION: Endoplasmic reticulum lumen.
-!- SIMILARITY: Some, to D.melanogaster UGGG.
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REDUENCE FROM N.A.

REDUENCE FROM N.A.

REDUENCE T., Sulutia Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,

RA OLA T., Sulutia Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,

RA GLA T., Sulutia Y., Makina T., Shibahara T., Tanaka T., Ishii S.,

RA Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,

RA Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,

RA Yamanoto J.-I., Saito M., Yasuda T., Iwayanagi T., Wagatsuma M.,

RA Shiratori A., Sudo H., Hosolii T., Kaku Y., Kodaira H., Kondo H.,

RA Shiratori A., Sudo H., Hosolii T., Kaku Y., Kodaira H., Kondo H.,

RA Shiratori A., Sudo H., Kamahara K., Yokoi T., Furuya T., Kikawa E.,

RA Jamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K.,

RA Jumori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y.,

RA Kusano J., Kanahori K., Takhashi-Fujii A., Hara H., Tanase T.-O.,

RA Jumori X., Matsunawa H., Ichinara T., Shiohata N., Sano S.,

Nomiyawa Y., Matsunawa H., Ishinara T., Shiohata N., Sano S.,

Nomiyama H., Satoh N., Takmi S., Terashima Y., Suzuki O.,

RA Nakagawa S., Senoh A., Mizoguchi H., Takura S., Fukuzumi Y.,

RA Hishigaki H., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y.,

RA Hishigaki H., Watanabe K., Kumagai A., Itakura S., Pukuzumi Y.,

RA Makagawa S., Senoh A., Mizoguchi H., Tanagaki H., Ikema Y., Okamoto S.,

RA Matsumura K., Pulyin Y., Oosaki K., Hirao M., Ohmori Y.,

RA Wabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,

RA Matsumura K., Nakajima Y., Milara H., Watanabe M., Sasaki M.,

RA Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T.,

RA Matsumura K., Nakajima Y., Milara Y., Chibara Y., Shabatia R.,

RA Matsumura K., Nakajima Y., Milara Y., Chibara Y., Yamashita R.,

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RA Matsumura K., Nakajima Y., Milara Y., Ohara O., Isogai T., Sadani R.,

RA Nakai K., Yada T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Conplete sequencing and characterization of 21,243 full-length human \*\*MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Altschul S.F., Zeeberg B., Wagner L., Schaefer C.F., Bhat N.K.,
Altschul S.F., Zeeberg B., Buerow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsheh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Tooshlyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunarathe P.H.,
A. Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A. Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A. Helton E., Ketteman M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
M. Miting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Butterfield Y.S. N., Krzywinski M.I., Skalska U., Smailus D.E.,
Butterfield A., Schein J.B., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human Bukaryoča, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. finger and BTB domain containing protein 3 Nat. Genet. 36:40-45(2004). Homo sapiens (Human) SEQUENCE FROM N.A. NCBI\_TaxID=9606;

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ö ä loved. Usage by and for commercial
(See http://www.isb-sib.ch/announce/ STRAIN=K9643;

X PubMed=15377794;

X Holden M.T.G., Titball R.W., Peacock S.J., Cerdeno-Tarraga A.M.,

A Holden M.T.G., Titball R.W., Peacock S.J., Cerdeno-Tarraga A.M.,

A Holden M.T.G., Titball R.W., Peacock S.J., Cerdeno-Tarraga A.M.,

A Atkins T., Crossman D.C., Pitt T., Churcher C., Mungall K.,

Bentley S.D., Sebaihia M., Thomson N.R., Bason N., Beacham I.R.,

Brooks K., Brown K.A., Brown N.F., Challis G.L., Cherevach I.,

Chillingworth T., Cronin A., Crosset B., Davis P., DeShazer D.,

Reith K.B., Maddison M., Moule S., Price C., Quail M.A.,

Rabbinowitson E., Rutherford K., Sanders M., Simmonds M.,

Songsivilai S., Stevens K., Tumapa S., Vestartchavest M.,

Whitehead S., Yeats C., Barrell B.G., Oyston P.C.F., Parkhill J.;

"Genomic plasticity of the causative agent of melioidosis,

Burkholderia pseudomallei, T.

Proc. Natl. Acad. Sci. U.S.A. 101:14240-14245(2004). Gaps Gaps UnterPro; IPR000210; BTB POZ.
InterPro; IPR0010210; BTB POZ.
InterPro; IPR001087; Znf\_C2H2.
Pfam; PP00051; Zf-C2H2; 2.
SMART; SM00255; BTB; 1.
SMART; SM00355; BTB; 1.
SMORT; SS00097; BTB; 1.
PROSITE; PS50097; BTB; 1.
PROSITE; PS500157; ZINC\_FINGER\_C2H2\_1; 2.
PROSITE; PS500157; ZINC\_FINGER\_C2H2\_2; 2.
DNA-binding; Metal-binding; Nuclear protein; Polymorphism; Repeat;
DNA-binding; Metal-binding; Zinc; Zinc-finger.
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74 142 . 3 Bacteria; Pročeobacteria; Betaproteobacteria; Burkholderiales; Burkholderiaceae; Burkholderia. DB 2; Length 74; 1; Length 574; 1; Indels Indels 227 346 Fro-rich. 472 494 C2H2-type 1. 500 523 C2H2-type 2. 574 574 I -> M (in dbSNP:544641). /FTId=VAR 018382. 574 AA; 61827 MW; 28C2FF4DB6C44036 CRC64; DC8E9521BDEFDA72 CRC64; Last sequence update)
Last annotation update) modified and this statement is not removed. Score 46; DB Pred. No. 87; 75.8%; Score 45.5; D 58.3%; Pred. No. 16; ive 2; Mismatches Mismatches entities requires a license agreement (Se or send an email to license@isb-sib.ch). Created) Burkholderia pseudomallei K96243. EMBL; AK027045; BAB15636.1; -. EMBL; BC025249; AAH25249.1; -. 76.7%; 74 AA; 8055 MW; 25-OCT-2004 (TrEMBLrel. 28, 25-OCT-2004 (TrEMBLrel. 28, 25-OCT-2004 (TrEMBLrel. 28, 58.3%; Query Match
Best Local Similarity 66...
6. Conservative 7; Conservative PRELIMINARY; Genew; HGNC:22918; ZBTB3 :|:|||| | 213 SGHWGKGEW 221 Putative lipoprotein. 1 XGYWGKGYW 9 Best Local Similarity Matches 7; Conserv NCBI TaxID=272560; SEQUENCE FROM N.A. ORFNames=BPSL1288 Lipoprotein. SEQUENCE 7 SEQUENCE DOMAIN ZN\_FING ZN\_FING Query Match VARIANT Q63VF7 Q63VF7 RESULT 10 Q63VF7 g ò

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EMBL; AP001508; BAB04077.1; -.
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Nature 420:312-316(2002).
REMELI, Apologolis, BAB21080:1; -.
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                                                                                                                                                                                                                                                                                                                       Oryza sativa (japonica cultivar-group).
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae,
Ehrhartoideae, Oryzeae, Oryza.
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BEDLINE-20512582; PubMed=11058132; DOI=10.1093/nax/28.21.4317;
Takami H., Nakasone K., Takaki Y., Maemo G., Sasaki R., Masui N.,
Takami H., Nakasone K., Takaki Y., Ogasawara N., Kuhara S.,
Horikoshi K.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AXA8; -.
198 AA; 21475 MW; 13F337BABDB9BEF0 CRC64;
                                                                                                                                                                                                       01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OJOCT-2000 (TrEMBLrel. 15, Created)
01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
01-0CT-2003 (TrEMBLrel. 24, Last annotation update)
5hort-chain fatty acids transporter.
Name-atoE; OrderedLocusNames=BH0358;
                                                                                                                                                                198 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           441 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PubMed=12447438; DOI=10.1038/nature01184;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6; Conservative
                                              60 FGYWSGGGRGYW 71
                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY:
    σ
  1 XGYW---GKGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :|:|||||
139 LGFWGKGY 146
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacillus halodurans.
                                                                                                                                                                                                                                                                                P0501G01.9 protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=39947;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gramene; Q9AXA8;
                                                                                                                                                                                                                                                                                                        Name=P0501G01.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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                                                                                                                                                                                        Q9AXAB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9KFW3;
                                                                                                                                                              Q9AXA8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09KFW3
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Matches
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A Dujon B., Sherman D., Fischer G., Durrens P., Casaregola S.,
Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.M., Beyne E., Bleykasten C.,
A Boisrame A., Boyer J., Catchlico L., Confanioleri F., de Dartuvar A.,
Despons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyer P., Kachouri R.,
Kerrest A., Koszul R., Lemaire M., Lesur I., Muller H.,
Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellanz S., Potier S., Richard G.F., Straub M.L., Suleau A.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof B., Wirth B.,
Zeniou-Mayer M., Zivanovic I., Bolotin-Pukuhara M., Thierry A.,
Bouchier C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
PIR; F83694; F83694.
60; GO:00146020; C:membrane; IBA.
GO; GO:0015635; F:short-chain fatty acid transporter activity; IBA.
GO; GO:0015912; P:short-chain fatty acid transport; IBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Candida glabrata CBS138.
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; mitosporic Saccharomycetales; Candida.
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05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Candida glabrata strain CBS138 chromosome E complete sequence.
ORFNames=CAGLOBO54129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           75.0%; Score 45; DB 2; Length 1326; 55.6%; Pred. No. 2.6e+02;
                                                                                                                                                                                                                                                                                                              75.0%; Score 45; DB 2; Length 441; 71.4%; Pred. No. 96; ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
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SEQUENCE 1326 AA; 152292 MW; 694BBE94391ED8DA CRC64;
                                                                                                                                                                                                                                                 441 AA; 47239 MW; 5387892F64302026 CRC64;
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUL-2004 (TrEMBLrel. 27, Created)
                                                                                                                   InterPro; IPR006160; SCFA transpt.
Pfam; PF02667; SCFA trans; 1.
ProDom; PD018634; SCFA transpt; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Genome evolution in yeasts.";
Nature 430:35-44(2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   034654;
10-0CT-2003 (Rel. 42, Created)
10-0CT-2003 (Rel. 42, Last seq
25-0CT-2004 (Rel. 45, Last ann
Hypothetical protein yodI.
                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 71.4%,
Them 5; Conservative
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Best Local Similarity 55.00,
Best Local Si Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
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Tue Apr 19 06:58:39 2005

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Query Match 74.2%; Score 44.5; DB 1; Length 83;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RATALNELS BO044033; PubMede9384377; DOI=10,1038/36786;

KARTALNELS BO044033; PubMede9384377; DOI=10,1038/36786;

KUNDEF, Ogasawara N., Moszer I., Albertini A.M., Alloni G.,

RA Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,

RA Borries R., Boursier L., Brans A., Braun M., Brignell S.C.; Bron S.,

RA Borries R., Devine K.M., Coladwell B., Capuano V., Carter N.M.,

RA Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Denizot F., Devine K.M., Dusterhoft A., Ehrlich S.D., Emmerson P.T.,

RA FRITA C., Fulita M., Fulita Y., Fuma S., Galizzi A., Galleron N.,

RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Gradge D.,

RA Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M.,

Jones L.-M., Joris B., Karamata D., Kashrara Y., Klaerr-Blanchard M.,

RA Jones L.-M., Joris B., Karamata D., Kashrara Y., Klaerr-Blanchard M.,

RA Manano M., Kurita K., Lapidus A., Lardinois S., Lauber J.,

RA Medigue C., Medina N., Mellado R.P., Miuun M., Moestl D., Nakai S.,

RA Medigue C., Medina N., Mellado R.P., Liu H., Masuda S., Mauch C.,

RA Prescott A.M., Presecan E., Puir, Parro B., Roche B.,

RA Prescott A.M., Presecan E., Puir, Purnelle B., Rapoport G.,

RA Rosmano M., Kurita N., Scalian E., Schleich S., Schroeter R.,

Rey M., Reynolds S., Rieger M., Rivolta C., Rocha E., Roche B.,

RA Rosmaru K., Takeuchi M., Tamakoshi A., Tanaka T., Terpstra P.,

Rosmarotti A., Viari A., Wanbutt R., Wedler E., Wedler H.,

Wasarotti A., Viari A., Wanbutt R., Wedler E., Wedler H.,

Wasarotti A., Viara K., Yoshida K., Yoshikawa H.F., Zumstein E.,

Rannel M., Precence of the Gram-positive bacterium Bacillus

RT The complete genome sequence of the Gram-positive bacterium Bacillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ghim S.-Y., Jeong Y.-M., Choi S.-K., Park S.-H., sequence analysis of the 30 kb region (182') of the Bacillus subtilis chromosome containing the cge cluster."; Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                             SEQUENCE FROM N.A. Wadler H., Lapidus A., Sorokin A., Ehrlich S.D.; Wanbutt R., Wedler H., Lapidus A., Sorokin A., Ehrlich S.D.; Sequence analysis of the Bacillus subtilis chromosome region between the odhAB and sppC loci cloned in a yeast artificial chromosome."; Submitted (SEP-1997) to the EMBL/GenBank/DDBJ databases.
Name=yodI; Synonyms=yolA; OrderedLocusNames=BSU19610;
Bacillus subtilis.
Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
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EMBL; AF006665; AAB81166.1; -.
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E69903; E69903.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [3]
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                             NCBI_TaxID=1423
                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=168;
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                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                           Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1;
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                  Indels
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PIK; GB3047; GB3047.
Complete proteome; Hypothetical protein.
SEQUENCE 187 AA; 21281 NW; 890889EBEEC51897 CRC64;
                                                                                                                                                                                                  01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
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                                                                                                                                                      187 AA.
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77.8%; Pred. No. 53;
ive 1; Mismatches
   Pred. No. 25;
1; Mismatches
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Job time : 179 secs
                                                                                                                                                                                    Created)
                                                                                                                                                      PRT;
77.8%;
                                                                                                                                                                                    (TrEMBLrel. 16,
                                                                                                                                                                                                                                                OrderedLocusNames=PA4793;
 Best Local Similarity 77.8
Matches 7; Conservative
                                                                                                                                                      PRELIMINARY;
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                                                                                                                                                                                                                                                                Pseudomonas aeruginosa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          opportunistic pathogen.'
Nature 406:959-964(2000)
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52 YGYWG-GYW 59
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                                                                                                                                                                                                                             Hypothetical protein
                                               1 XGYWGKGYW
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SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                            NCBI_TaxID=287;
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

April 19, 2005, 05:57:50 ; Search time 176 Seconds (without alignments) 19.778 Million cell updates/sec Run on:

Title: Perfect score:

1 xgywgkgyw 9 Sequence:

Scoring table:

BLOSUM62DX Gapop 10.0 , Gapext 0.5

2105692 Total number of hits satisfying chosen parameters:

2105692 segs, 386760381 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

A\_Geneseq\_16Dec04:\* 1: geneseqp1980s:\* 2: geneseqp1990s:\*

geneseqp2000s:\* geneseqp2001s:\* geneseqp2003s:\* geneseqp2003as:\* geneseqp2003bs:\* geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

,	Immunogen	Fluorine-	Fluorine-	Iodinated	Peptide h	Immunogen	H2 homolo	5. 7/1	Bt KRE	an nov	an nov	el hum	el hum	Fluorine-	Immunogen	Immunogen	Peptide h	an pro	an pro		Pseudomon	Protein e	Pseudomon	Protein e	pneumon
ion	E	Flu	Flu	Iod	Pep	I	H2	KRES.	Yeast	Human	Human	Novel	Novel					Human	Human			Pro	Pse	Pro	S
Description	Aay76816	Aay03714	Aay03716	Adg94002	Ad198013	Aay76818	Aab18511	Aar36780	Aab72446	Aau16277	Abu55346	Adn99821	Adn99820	Aay03715	Aay76817	Adg94005	Ad198014	Aab99111	Aam80087	Abg19170	Abo78095	Abu20398	Abo80711	Abu23292	Adp18467
ID	AAY76816	AAY03714	AAY03716	ADG94002	ADL98013	AAY76818	AAB18511	AAR36780	AAB72446	AAU16277	ABU55346	ADN99821	ADN99820	AAY03715	AAY76817	ADG94005	ADL98014	AAB99111	AAM80087	ABG19170	ABO78095	ABU20398	ABO80711	ABU23292	ADP18467
DB	6	~	~	7	æ	m	ო	~	4	4	9	8	œ	~	ო	7	œ	4	4	4	7	9	7	9	œ
Query Match Length DB	6	80	80	8	80	80	841	1365	1365	164	164	524	524	80	ω	8	80	152	1090	1180	339	440	383	446	960
Query	100.0	98.3	98.3	98.3	98.3	85.0	81.7	80.0	80.0	76.7	76.7	76.7	76.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.2	74.2	73.3	71.7	71.7
Score	09	59	59	59	59	51	4	48	48	46	46	46	46	45	45	45	45	45	45	45	44.5	44.5	44	43	43
Result No.	п	71	М	4,	5	9	7	œ	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Bi-specific antibodies that bind specific target tissue and targeted

WPI; 2000-160561/14.

Adr95764 Novel S. Adk4852 Streptoco Adm92045 S pneumon Aay8179 Streptoco Abu02832 S. pneumon Abp10992 Human ORF Aau02601 Anti-adip Abb69676 Drosophil Aax69561 Human lig Abb77979 Amino aci Az59641 Human DNA Abg72867 Human DNA Abg72867 Human DNA Abg72649 Human DNA Abg73649 Human DNA Abg73649 Human DNA Abg04331 Novel hum Adg11655 Myostatin Abb77617 Amebv red Abw09819 VH4715-1i Aaw09819 VH4715-1i Aaw35564 Hind111-E	
ADR95764 ADK48522 ADM92045 AAV81779 ABU02832 ABU02801 ABB69676 AAW696561 ABB69676 ABB77979 AAB77979 ABG72867 ABG91867 ABG73818	
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#### ALIGNMENTS

/note= "D-form residue; modified with free amino acid group, protected amino acid group, chelating agent or a metal-chelate complex" 8 Immunogenic peptide, bi-specific antibody; diagnosis; immune response; diseased tissue identification; therapy. /note= "free amino acid group, protected amino acid group, chelating agent or a metal-chelate complex" Immunogenic peptide for bi-specific antibody recognition. 2 g Hansen HJ, Griffiths GL, Leung S, Mcbride WJ, /note= "D-form residue" note= "D-form residue" note= "D-form residue" Location/Qualifiers AAY76816 ID AAY76816 standard; peptide; 9 AA. 99WO-US013879. 98US-0090142P. (first entry) (IMMU-) IMMUNOMEDICS INC. Key Misc-difference Misc-difference Misc-difference Misc-difference Misc-difference Misc-difference 22-JUN-1998; 14-OCT-1998; 28-APR-2000 WO9966951-A2 22-JUN-1999; 29-DEC-1999. Synthetic. AAY76816; RESULT 1  Radiolabeling thiol-containing peptides with fluorine-18.

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diseased tissues in a patient comprising administering a bi-specific antibody (or fragment) having at at least 1 arm (A) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targetable conjugate. The methods and bi-specific antibodies and therapy. It is advantageous to raise bi-specific antibodies against a targetable conjugate that is capable of carrying at least 1 diagnostic or therapeutic agent. The characteristics of the chelator, metal chelate complex, therapeutic agent or diagnostic agent can be varied to accommodate differing applications without raising new bi-specific antibodies for each new application. The targetable conjugate is selected to elicit sufficient immune responses and also for rapid in vivo clearance when used within the bi-specific antibody targeting method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18F radionuclide, targeting vector; positron emission tomography; F-18; radiolabeling; thiol; fluorine-18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note= "optionally has a free or protected amino acid
                                                          represents an immunogenic peptide for a bi-specific invention relates to a method of treating or identif
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                                                                                                                                                                                                                                                                                                                                      100.0%; Score 60; DB 3; Length 9; 100.0%; Pred. No. 1.8e+06;
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                                                                          . The invention relates to a method of
                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
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protected amino acid group'
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                              Claim 21; Page 61; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAY03714 standard; peptide; 8 AA
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Best Local Similarity 10u...
9; Conservative
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Misc-difference 1
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                                                                                                                                                                                                                                                                                                         Sequence 9 AA;
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The inventor traders to a mercino to introllocating to required into the inventor traders to a mercino to containing targeting vectors for use in clinical positron comprises reacting a peptide comprises with care fluorinated means at least one leaving group comprising a free thiol group with a labeling reagent of formula: 18F (CH2)m-CRIR2-(CH2)n-X, or a fluorinated alkene in which at least one of the two double bonded exbon catoms bears at least one leaving group comprising I, Br, Cl, azide, tosylate, mesylate, nosylate, triflate, maleimide comprising I, Br, Cl, azide, tosylate, mesylate, triflate, maleimide, CC azide, tosylate, mesylate, triflate, maleimide, CC azide, tosylate, mesylate, nosylate, triflate, maleimide, CC azide, tosylate, mesylate, nosylate, triflate, maleimide, CC alk, azide, tosylate, mesylate, nosylate, triflate, maleimide, CC aubstituted by CONH2, COOH, OH, sulfonic acid, tertiary amine, alkyl (optionally substituted by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubstituted by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubstituted by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubertiured by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubertiured by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubertiured by CONH2, took, one for Radiolabeling peptide-containing targeting vectors such as proteins, antibodies, antibody fragments and receptor-cuangue property of the free thiol groups which are rapidly alkylated at cunique property of the free thiol groups which are rapidly alkylated at containing targeting contains of the free thiol groups which are rapidly alkylated at containing the property of the free thiol groups which are rapidly alkylated at containing targeting contains of a containing targeting and the containing targeting and the containing targeting and the containing targeting and the containing targeting the companies of the free thiol groups which are rapidly alkylated at containing targeting and the containing targeting and the containing targeting
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                                                                                                                                                               invention relates to a method for incorporating 18F radionuclide into
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      examples of F-18 labeled peptides used in the method of detecting a
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Pred. No. 1.8e+06;
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100.0%; Pre
                                                                                                               Claim 13; Page 15; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAY03716 standard; peptide; 8 AA.
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Best Local Similarity 100.
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Modified-site
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WPI; 2003-801085/75.
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     Misc-difference 7
                                                  Misc-difference 8
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Modified-site
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ADL98013
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                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method for incorporating 18F radionuclide into peptide-containing targeting vectors for use in clinical positron comparably. Radiolabeling thiol-containing peptides with clinorine-18 (F-18) comprises reacting a peptide comprising a free thiol cluorine-18 (F-18) comprises reacting a peptide comprising a free thiol group with a labeling reagent of formula: 18F-(CH2)m-CRIR2-(CH2)n-X, or a closs bars at least one leaving group comprising a free thiol atoms bears at least one leaving group comprising 1, Br. Cl, azide, azide, nosylate, nesylate, nosylate, nesylate, mesylate, mesylate, nosylate, triflate, maleimide C (optionally substituted by 1-2 alkyl) or 3-sulfomaleimide; Rl, R2 = 1, Br. Cl, azide, tosylate, mesylate, nosylate, triflate, H, CONH2, COOH, OH, sulfonic acid, tertiary amine or cubstituted by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubstituted by CONH2, COOH, OH, sulfonic acid, tertiary amine or cubstituted by conteins, antibodies, antibody fragments and receptor-targeted peptides for use in routine clinical positron emission congraphy. The method is simple and efficient. The method uses the unique property of the free thiol groups which are rapidly alkylated at neutral pH and moderate temperatures. Sequences AAY0314-716 represent examples of F-18 labeled peptides used in the method of detecting a
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polymer conjugate; tumour; cytostatic; photodynamic therapy.
                                                                                                                                                                                                                                                                  Radiolabeling thiol-containing peptides with fluorine-18.
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                                                                                                                                                                                                                                                                                                                Claim 15; Page 15; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADG94002 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Iodinated immunogenic peptide.
                         98WO-US018268
                                                                      97US-0057485P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAR-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 100.
Matches 8; Conservative
                                                                                                                       (IMMU-) IMMUNOMEDICS INC
                                                                                                                                                                                                                    WPI; 1999-228967/19.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Misc-difference 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Misc-difference 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 8 AA;
                                                                    03-SEP-1997;
                      03-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
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The invention relates to targeting an agent towards a target site in a tissue, comprising administering to the tissue, a multi-specific antibody or its fragment, comprising a targeting arm that binds to an antigen of the target site and a capture arm that binds to a polymer conjugate, and administering a polymer conjugate that binds to the capture arm, the conjugate has a polymer conjugate to the agent such as therapeutic agent, a peptide, an enzyme and a labelled ligand, Also included is a kit useful for targeting a target site within a tissue in a subject or tissue sample comprising the above mentioned multi-specific antibody or its fragment and a polymer conjugate. The method is used for targeting an also useful for therapeutic or diagnostic purposes and further in photodynamic therapy. The present sequence is an Iodinated immunogenic peptide used to raise antiboddes which recognise only the iodinated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Targeting an agent towards a target site in a tissue, by administering in a tissue, a multi-specific antibody or its fragment and a polymer conjugate that binds to the capture arm of the multi-specific antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 photodynamic diagnosis; cancer; tumour; cardiovascular lesion; inflammatory disease; neurodegenerative disease; metabolic disease; infectious disease; B-cell malignancy; Alzheimer's disease; amyloidosis; autoimmune disease; bacterial infection; fungal infection; parasitic infection; viral infection; carcinoembryonic antigen-expressing tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
'note= "D-form residue and optionally iodinated"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 8;
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Pred. No. 1.8e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98.3%; Sco...
100.0%; Pred. No. ...
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peptide, used in the method of the invention
                                                                          /note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 8; 19pp; English.
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                                                                                                                                                                                                                                                                                                                 31-JUL-2002; 2002US-00209592
                                                                                                                                                                                                                                                                                                                                                                                                31-JUL-2001; 2001US-0308605P
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seq2.rag

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'note= "D form residue; optionally iodo Tyr"
                                                                                                                                                                    'note= "D form residue; optionally iodo Tyr"
                                                                                                                            'note= "D form residue; acetylated"
/note= "N-terminal acetyl"
                                                                                 'note= "D form residue"
                                                                                                                                                                                                             /note= "D form residue"
                                                            Misc-difference
                                                                                                                                                                                           Misc-difference
                                                                                                                                                                                                                                                          US2004043030-A1
                  Modified-site
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34-MAR-2004

09-JUN-2003; 2003US-00456580.

31-JUL-2002; 2002US-00209592. 31-JUL-2001; 2001US-0308605P.

(IMMU-) IMMUNOMEDICS INC.

Goldenberg DM, Hansen HJ; Griffiths GL,

WPI; 2004-313738/29.

Treating cancer and metabolic diseases by administering a multi-specific antibody having a targeting arm that binds to an antigen and a capture arm that binds to a polymer conjugate comprising a therapeutic agent.

Disclosure; Page 16; 24pp; English.

disorder. The method involves administering to a tissue a multi-specific antibody (I) or antibody fragment, comprising a targeting arm that binds to an antigen on the target site, and a capture arm that binds to a polymer conjugate, and administering to the tissue a polymer conjugate that binds to the capture arm, the polymer conjugate comprising a polymer conjugated to a diagnostic or therapoutic agent. Also included is a method for photodynamic diagnostic or teratent of a disease or disorder. The method for tagnostic or treating a citravascular or endoscopic method for diagnosting or treating a disease or disorder. The method is useful for diagnosting or treating a disease or disorder chosen from cancer (oseophageal, gastric, colonic, rectal, pancreatic, lung, breast, ovarian, urinary bladder, endometrial, cervical, testicular, renal, adrenal and liver cancer, solid tumour, B-cell malignancy or T-cell malignancy); cardiovascular lesion; an inflammatory disease; neurodegenerative disease; metabolic disease; and inflammatory disease. The B-cell malignancy is chosen from infolent forms of B-cell lymphomas, aggressive forms of B-cell lymphomas, cute lymphatic leukaemias, acute lymphatic leukaemias, and multiple mysloma. The solid tumour is chosen melanoma, carcinoma (preferably renal carcinoma, lung carcinoma, intestinal carcinoma, and stomach carcinoma), clock, embolus, atherosclerotic plague and ischaemia from infarct, con uninfarch is altered in allegative forms of B-cell infarct, continued in and sarconarative disease; and multiple myslomer. neurodegenerative disease is Alzheimer's disease. The metabolic disease is amyloidosis, where the antibody binds amyloid. The disease or disorder is displaced or ectopic normal tissue chosen from endometrium, thymus, spleen and parathyroid. The method can be used for normal tissue ablation, where the tissue is chosen from bone marrow and spleen. The disease or disorder is an autoimmune disease such as mysathenia gravis, lupus nephritis, lupus erythematosua, and rheumatoid arthritis, Class III autoimmune disease. erythematogus, lupus nephritis, rheumatic fever, polyglandular syndromes, bullous pemphigoid, diabetes mellitus, Henoch-Schonlein purpura, postbullous pemphigoid, diabetes mellitus, Henoch-Schonlein purpura, postbullous adisease, rheumatoid arthritis, sarcoidosis, ulcerative colitis, erythema multiforme, IgA nephropathy, polyarteritis nodosa, ankylosing spondylitis, Goodpasture's syndrome, thromboangitis ubiterans, primary billary cirrhosis, Hashimoto's thyroiditis, thyrotoxicosis, scleroderma, invention relates to a method of diagnosing or treating a disease or acute idiopathic thrombocytopenic purpura and chronic idiopathic thrombocytopenic purpura, dermatomyositis, Sjogren's syndrome, multiple sclerosis, Sydenham's chorea, myasthenia gravis, systemic lupus

'note= "acetylated D-form residue"

Misc-difference 7

note= "D-form iodo-Tyr 'note= "D-form residue"

> Misc-difference Misc-difference

commonications polymostis, definition and an administration and active inpartitions, personal personal sclerosis, tabes dorsalis, membranous nephropathy, amyotrophic lateral sclerosis, tabes dorsalis, giant cell amyotrophic lateral sclerosis, tabes dorsalis, giant cell securitis/polymyalgia, pernicious anaemia, rapidly progressive closen from bacterial, fungal, parasitic and viral lesion. The infectious disease is chosen from bacterial, fungal, parasitic, and viral lesion. The infectious by a fungus chosen from Microsporum, Trichophycon, Epidermophyton, Sporothrix schenckii, Cyrptococcus neoformans, Coccidioides immitis, Histoplasma capsulatum, Blastomyces dermatitidis, Coccidioides immitis, Histoplasma capsulatum, Blastomyces dermatitidis, conditional merities and candida ablorans. The infectious disease is caused by a virus schosen from HIV, herpes virus, feline leukemia virus, Reo virus, polio coccus summans virus, warrus 40, respiratory syrus, measurem parvo-like virus, simian virus, varicella-Zoster virus, bengue virus, vartus, mouse mammary tumour virus, varicella-Zoster virus, vesicular stomatitis virus, measles virus, adenovirus, human T-cell cukemia virus, man chosen from Bacillus anthracis, Streptococcus agalactiae, Legionella pneumophilia, Streptococcus pyogenes, Escherichia coli, influenzae B, Treponema pallidum, Lyme disease spirochetes, Pseudomönas aeruginosa, Mycobacterium leprae, Brucella abortus, Mycobacterium cutorae, Brucella abortus, Mycobacterium cutorae, Brucella abortus, Mycobacterium cutorae, Brucella abortus, Mycobacterium control and parae, Brucella abortus, Toxoplasma cutorae, and Tetanus foxin. The infectious disease is caused by a protozoccus chosen from Plasmodium falciparum, Plasmodium vivax, Toxoplasma cutorae. ö gondii, Trypanosoma rangeli , Trypanosoma cruzi, Trypanosoma rhodeslensei, Trypanosoma brucei, Schistosoma mansoni, Schistosoma japanicum, Babesia bovis, Elmeria tenella, Onchocerca volvulus, Theileria parva, Taenia hydatigena, Taenia ovis, Taenia saginata, Echinococcus parva, Taenia hydatigena, Taenia ovis, Taenia saginata, Echinococcus aranulosus, and Mesocestoides corti. The infectious disease is caused by a mycoplasma chosen from Mycoplasma arthritidis, M. hyorhinis, M. orale, M. arginini, Acholeplasma laidlawii, M. salivarum and M. pneumoniae. The cancer is preferably chosen from carcinoembryonic antigen (CEA) expressing tumour or a CD20-expressing malignancy. The present sequence represents a peptide used in the method of the invention. Immunogenic peptide; bi-specific antibody; diagnosis; immune response; diseased tissue identification; therapy. Gaps ö Immunogenic peptide for bi-specific antibody recognition. Score 59; DB 8; Length 8; Pred. No. 1.8e+06; Mismatches 0; Indels Location/Qualifiers note= "acetylated" 98.33, 100.0%; Pre-AAY76818 standard; peptide; 8 AA. (first entry) 8; Conservative GYWGKGYW 9 1 GYWGKGYW 8 Query Match Best Local Similarity Misc-difference Sequence 8 AA; Key Modified-site 28-APR-2000 Synthetic. AAY76818; Matches RESULT 6 셤

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New DNA encoding genes which participate in beta-glucan assembly - useful for producing mutants for in=vivo screening of antifungal agents and providing tools for in-vitro screening.
                                                                                                                                                                                                                                                                                                                            The present sequence represents a H2 homologue of a prolyl tripeptidyl-peptidae. Prom Porphyromonas gingivalis. The prolyl tripeptidae has an amidolytic activity, and cleaves a peptide bond in a target polypeptide having at least 4 amino acids. This bond is between a proline and an amino acid attached to the alpha-carboxyl group end of the proline. The polypeptide is useful for identifying inhibitors. These inhibitors are then useful for reducing the growth of bacterium or for protecting an animal from a periodontal disease such as gingivitis and periodontitis caused by Porphyromonas gingivalis
                                                                                                                                                                                                       Prolyl tripeptidyl-peptidase, active analog, fragment or variant useful for identifying its inhibitor which is useful for protecting an animal from a periodontal disease such as gingivitis and periodontitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Yeast; cell wall; beta-glucan; assembly; pathway; KRE1; KRE5; growth; secretory; O-linked mannose; (1.56)-beta-glucan; epistasis; morphology; hydrophilic; glycoprotein; COOH-terminal; endoplasmic reticulum; ER; retention signal; antifungal agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     81.7%; Score 49; DB 3; Length 841; 66.7%; Pred. No. 1.4e+02; ive 1; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ROYA-) ROYAL INST ADVANCEMENT LEARNING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAR36780 standard; protein; 1365 AA.
                     UNIV GEORGIA RES FOUND INC.
                                                                                                                           Banbula
                                                                                                                                                                                                                                                                                           Claim 22; Fig 6; 58pp; English
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                                                                                                                           Potempa J,
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                                                                                                                                                                  WPI; 2000-594181/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1993-109384/13.
N-PSDB; AAQ38899.
                                         TRAVIS J.
POTEMPA J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 6; Conser
                                                                                  BANBULA A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 841 AA;
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                                                                                                                         Travis J,
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(TRAV/)
(POTE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antibody. The invention relates to a method of treating or identifying diseased tissues in a patient comprising administering a bi-specific antibody (or fragment) having at least 1 arm (A) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targeteable conjugate. The methods and bi-specific antibodies and fusion proteins are useful for pre-targeting methods of diagnosis and therapy. It is advantageous to raise bi-specific antibodies against a targetable conjugate that is capable of carrying at least 1 diagnostic or therapeutic agent or diagnostic agent can be varied to complex, therapeutic agent or diagnostic agent can be varied to antibodies for each new applications without raising new bi-specific antibodies for each new application. The targetable conjugate is selected to elicit sufficient immune responses and also for rapid in vivo clearance when used within the bi-specific antibody targeting method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Prolyl tripeptidyl-peptidase, amidolytic activity, periodontal disease, gingivitis; periodontitis.
                                                                                                                                                                                                                                                                                                                                                                                           Bi-specific antibodies that bind specific target tissue and targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequence represents an immunogenic peptide for a bi-specific
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                                                                                                                                                                                                                                                                                                               Mcbride WJ,
/note= "D-form iodo-Tyr"
                                       /note= "D-form residue"
                                                                                                                                                                                                                                                                                                               Leung S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 23; Page 61; 76pp; English.
                                                                                                                                                                99WO-US013879,
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                                                                                                                                                                                                                                                                                                           Griffiths GL,
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                                                                                                                                                                                                                                                                    (IMMU-) IMMUNOMEDICS INC.
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ses 7; Conservative
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                   Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 8 AA;
                                                                                                                                                                                                     22-JUN-1998;
14-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAR-1999;
                                                                              WO9966951-A2
                                                                                                                                                                22-JUN-1999;
                                                                                                                       29-DEC-1999
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Query Match Best Loc Matches

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AAB18511

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Gaps ö

Meaden P;

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                                                                                      participate in a yeast cell wall beta-gluon assembly pathway. These proteins represent KREI and KRES respectively, and are essential for normal cell growth. KRI is a Ser/Thr rich protein that is directed into the yeast secretory pathway, where it is highly modified, probably through addition of O-linked mannose residues. Gene disruption of the KREI locus leads to a 40% reduced level of cell wall (1s6)-beta-glucan. Mutations at KRES also caused defects in cell wall (1s6)-beta-glucan production and appears to be epistatic to KREI. KRE5 is a large thydrophilic secretory glyco-protein which contains the COGH-terminal choppings gene results in cells with abserant morphology and extremly compromised growth. KREI and KRES are useful as tools for the in vitro screening of anti-fungal agents which inhibit fungi pathogenic to plants and animals. The genes can be used to produce mutants for in vivo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to a method for determining the effect of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       test sample on UDP-glucose:glycoprotein glucosyltransferase (UGGT) activity. The method comprises exposing an acceptor substrate for UGGT to a labelled donor in the presence of the test sample and UGGT. The method is useful for determining UGGT activity. In particular, the method is useful in glucosyltransferase assay and kinetics measurement for determining UGGT activity. UGGT is a soluble enzyme of the endoplasmic reticulum which catalyses the addition of a glucose residue onto
                                                               sequences given in AAR34785 and AAR36780 represent proteins which
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1365;
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Pred. No. 3.1e+02;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Thomas DY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB72446 standard; protein; 1365 AA.
Claim 1; Col 38-44; 24pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure, Fig 9; 95pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-00376330
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity .66.7
Matches .6, Conservative
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1233 DGYWKEGYW 1241
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1365 AA;
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                                                                                                                                                                                                                                                                                                                                                     Human; immunosuppressive; antiarthritic; antirheumatic; cytostatic; cardiant; vasotropic; cerebroprotective; mootropic; neuroprotective; antibacterial; virucide; fungicide, opthalmalogical; vulnerary; secreted protein; rheumatoid arthritis; hyperproliferative disorder; cardiovascular disorder; cardiac arrest; cerebrovascular disorder; cerebral ischaemia; angiogenesis; nervous system disorder; Alzheimer's disease; infection; ocular disorder; corneal infection; wound healing; epithelial cell proliferation; skin ageing; food additive; preservative; antiproliferative.
asparagine-linked oligosaccharides, which are present on incorrectly folded glycoproteins. The present sequence was used in a sequence homology comparison with rat UGGT (see AAF60732 and AAB72436) which was used in the method of the present invention
                                                                                                                        Gaps
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                                                                                          Score 48; DB 4; Length 1365;
Pred. No. 3.1e+02;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                             Human novel secreted protein, Seg ID 1230.
                                                                                                                                                                                                                                              AAU16277 standard; protein; 164 AA.
                                                                                             80.08;
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2000US-0217487P.
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                                                                                          Query Match
Best Local Similarity 66.7
Matches 6; Conservative
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1233 DGYWKEGYW 1241
                                                                                                                                                1 XGYWGKGYW 9
                                                                  Sequence 1365 AA
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14-AUG-2000; 2000US-0225758P

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2000US-0226681P
2000US-022688P
2000US-0227182P
2000US-0227182P
2000US-022934P
2000US-0229343P
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2000US-0237040P.
2000US-0239935P.
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2000US-0234997P.
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2000US-0246477P.
2000US-0246478P.
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2000US-0231413P.
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2000US-0236369P.
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2000US-0241808P.
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2000US-0244617P.
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2000US-0232397P
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08-SEP-2000;
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08-NOV-2000; 2000US-0246611P.
08-NOV-2000; 2000US-0246613P.
17-NOV-2000; 2000US-0249209P.
17-NOV-2000; 2000US-0249209P.
17-NOV-2000; 2000US-0249210P.
17-NOV-2000; 2000US-0249211P.
17-NOV-2000; 2000US-0249211P.
17-NOV-2000; 2000US-0249211P.
17-NOV-2000; 2000US-0249214P.
17-NOV-2000; 2000US-0249214P.
17-NOV-2000; 2000US-0249214P.
17-NOV-2000; 2000US-0249214P.
17-NOV-2000; 2000US-0249214P.
17-NOV-2000; 2000US-0249214P.
                                                                                                                       2000US-0249264P.
2000US-0249265P.
2000US-0249297P.
2000US-0249299P.
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2000US-0250391P.
2000US-0251030P.
2000US-0251988P.
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2000US-0249245P
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2000US-0251856P
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17-NOV-2000; 2
17-NOV-2000; 2
17-NOV-2000; 2
17-NOV-2000; 2
17-NOV-2000; 2
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05-DEC-2000;
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08-DEC-2000;
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(HUMA-) HUMAN GENOME SCI INC

Barash SC, Ruben SM; Rosen CA,

WPI; 2001-488783/53. N-PSDB; AAS26264.

New nucleic acid molecules encoding 461 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions and used as food additives or preservatives.

Claim 11; SEQ ID NO 1230; 980pp; English

The invention relates to isolated nucleic acid molecules and their encoded secreted proteins. The nucleic acids and proteins are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used in diagnosing a pathological condition or susceptibility to a alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbant assays (ELISA) Disorders which are diagnosed or treated include autofimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. cardiac diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. cardiac arrest, carebrovascular disorders e.g. cardiac arrest, carebrovascular disorders e.g. carchiac arrest, orehovascular disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. Cor supporting call culture of primary tissues, to all wany other disorders listed in the specification. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to respensate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present capabilities fat content did not form part of the printed sequence represents a novel secreted protein of the invention. Note: The sequence data for this patent did not form part of the printed

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Sequence 164 AA;
                                                                                                                                                                                 disorders.
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                                                                                                                                                                                  renal
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                                                                                                                                                                                                                                                                                                                                                                                                                     ADN99821
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                                                                                                                                       Human, neural disorder, immune system disorder, renal disorder, muscular disorder; respiratory disease; reproductive disorder; gastrointestinal disorder; pulmonary disorder; cardiovascular disorder;
                                                                                                                                                           hyperproliferative disorder; inflammatory disease; allergic reaction; blood related disorder; cancer; immunosuppressive; antiinflammatory; cardiovascular; nephrotropic; cytostatic; antiallergic; thrombolytic; haemostatic; antiarteriosclerotic.
               Gaps
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76.7%; Score 46; DB 4; Length 164; 66.7%; Pred. No. 78;
               1; Indels
              2; Mismatches
                                                                               ABU55346 standard; protein; 164 AA
                                                                                                                                                                                                                                                                                                                2000US-0220964P

2000US-0224519P

2000US-022527P

2000US-022526P

2000US-025270P

2000US-025270P

2000US-025270P

2000US-025278P

2000US-022547P

2000US-022547P

2000US-022944P

2000US-0229344P

2000US-0229344P
                                                                                                                         Human novel polypeptide #433.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-0237037P
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                                                                                                           18-MAR-2003 (first entry)
               6; Conservative
                                     : | : | | | | | SGHWGKGEW 132
                             1 XGYWGKGYW 9
      Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                               US2002132753-A1.
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01-SEP-2000;
01-SEP-2000;
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                                                                                                                                                                                                 Homo sapiens
                                                                                              ABU55346;
Query Match
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The invention relates to human novel polypeptides and their associated polynucleotides. The polypeptides and polynucleotides are useful in gene therating, inhibiting or preventing neural disorders, immune system disorders (e.g. systemic lugus erythematosus, rheumatoid arthritis and multiple sclerosis), muscular disorders, respiratory diseases (e.g. nasal polyps and sinusitis), reproductive disorders, cardiovascular disorders, pulmonary disorders, cardiovascular disorders, pulmonary disorders, cardiovascular disorders (e.g. congenital heart defects, Ebstein's anomaly and hypoplastic left heart syndrome), renal disorders (e.g. acute kindey failure and end-stage renal disease) hyperproliferative disorders (e.g. Hodgkin's disease and leukaemia), inflammatory diseases (e.g. septic shock, bursitis and appendicitis), allergic reactions and conditions (e.g. asthma), blood related disorders (e.g. therosclerosis and myocardial infarction) and cancerous diseases. Sequences ABUS4914-ABUS5699 and miscress thus a part of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   anti-inflammatory; dermatological; neuroprotective; immunomodulator; antibacterial; virucide; antipsoriatic; cytostatic; gene therapy; excine; inflammatory; CNS; immune disorder; cancer; psoriasis; diabetes; early aging; hormonal imbalance; ischemic heart disease; ulcerative colitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptides and nucleic acids, useful in gene therapy for treating, inhibiting or preventing e.g. neural, immune system, muscular, respiratory, reproductive, gastrointestinal, pulmonary, cardiovascular or
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02-OCT-2000; 2000US-023937040P.
13-OCT-2000; 2000US-0239935P.
20-OCT-2000; 2000US-0240560P.
20-OCT-2000; 2000US-0241785P.
01-NOV-2000; 2000US-0241809P.
17-NOV-2000; 2000US-0241809P.
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Best Local Similarity 66...
6; Conservative
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124 SGHWGKGEW 132
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N-PSDB; ABX73605.
                                                                                                                                                                                                                                                                                                                                                                          (ROSE/) ROSEN C A.
(RUBE/) RUBEN S M.
(BARA/) BARASH S C.
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polynucleotide sequence or intercent that encodes a polypeptide. The nucleic acid is useful in preparing a composition for treating or preventing inflammatory, CNS, immune, bacterial or viral disorder, cancer, psoriasis, diabetes, early aging, hormonal imbalance, ischemic heart disease or ulcerative colitis. This sequence corresponds to a protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anti-inflammatory; dermatological; neuroprotective; immunomodulator; attibacterial; virucide; antipsoriatic; gone therapy; vaccine; inflammatory; CNS; immune disorder; cancer; psoriasis; diabetes; early aging; hormonal imbalance; ischemic heart disease;
  e E, Hestir K, Beaurang PA, Behrens D;
S, Lin H, Linnemann T, Pierce K, Wang Y;
H, Zeng C;
                                                                         New nucleic acid molecules, useful in preparing a composition for treating or preventing e.g. inflammatory, CNS, bacterial or viral disorders, cancer, psoriasis, diabetes, ischemic heart disease or ulcerative colitis.
                                                                                                                                                            The invention relates to a nucleic acid molecule comprising a
                                                                                                                                                                                                                                                                             76.7%; Score 46; DB 8; Length 524; 66.7%; Pred. No. 2.3e+02; ive 2; Mismatches 1; Indels
                                                                                                                                        Claim 14; SEQ ID NO 1421; 532pp; English
                                                                                                                                                                                                                                                                                                                                                                                                        ADN99820 standard; protein; 524 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel human protein sequence #636.
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25-OCT-2002; 2002US-0421080P.
25-OCT-2002; 2002US-042152P.
25-OCT-2002; 2002US-042154P.
30-OCT-2002; 2002US-0422174P.
15-NOV-2002; 2002US-0426384P.
15-NOV-2002; 2002US-0426384P.
15-NOV-2002; 2002US-0426394P.
15-NOV-2002; 2002US-0426394P.
15-NOV-2002; 2002US-0426394P.
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15-NOV-2002; 2002US-0426394P.
27-NOV-2002; 2002US-0426394P.
27-NOV-2002; 2002US-0429275P.
27-NOV-2002; 2002US-0429336P.
27-NOV-2002; 2002US-0429336P.
27-NOV-2002; 2002US-0429336P.
27-NOV-2002; 2002US-0429336P.
   Chu K, Lee E,
Kothakota S,
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                         Zhang H,
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                                                                                                                                                                                                                                                                                                     6; Conservative
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                                              WPI; 2004-365511/34.
N-PSDB; ADN99037.
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Williams LT, Chu Halenbeck RF, Kotl
Wong JGP, Wu G,
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                                                                                                                2002US-0421614P.
2002US-0422177P.
2002US-0422178P.
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2002US-0426384P.
2002US-0426394P.
2002US-0426430P.
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2003US-0463732P.
2003US-0467199P.
2003US-0467201P.
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2003US-0472430P.
2003US-0476609P.
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2003US-0476632P.
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2002US-0430645P.
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2002US-0433316P.
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2003US-0463708P
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2003US-0440820P
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30-OCT-2002;
15-NOV-2002;
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27-NOV-2002;
27-NOV-2002;
27-NOV-2002;
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40-DEC-2002;
04-DEC-2002;
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12-DEC-2002;
13-DEC-2002;
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13-DEC-2002;
23-DEC-2002;
03-JAN-2003;
17-JAN-2003;
17-JAN-2003;
18-APR-2003;
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02-MAY-2003;
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02-MAY-2003;
19-MAY-2003;
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22-MAY-2003;
09-JUN-2003;
09-JUN-2003;
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05-DEC-2002;
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Gaps

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(FIVE-) FIVE PRIME THERAPEUTICS INC.
                                                               2003US-0476621P
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                                                                                             08-AUG-2003;
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                  2-DEC-2002;
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                                                                        38-JUL-2003
                                        8-APR-2003
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Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D; Halenbeck RF, Kothakota S, Lin H, Linnemann T, Pierce K, Wang Y; Wong JGP, Wu G, Zhang H, Zeng C;

New nucleic acid molecules, useful in preparing a composition for treating or preventing e.g. inflammatory, CNS, bacterial or viral disorders, cancer, psoriasis, diabetes, ischemic heart disease or ulcerative colitis.

Claim 14; SEQ ID NO 1420; 532pp; English.

The invention relates to a nucleic acid molecule comprising a polypucleotide sequence or its complement that encodes a polypeptide. The nucleic acid is useful in preparing a composition for treating or preventing inflammatory, CNS, immune, bacterial or viral disorder, cancer, psoriasis, diabetes, early aging, hormonal imbalance, ischemic heart disease or ulcerative colitis. This sequence corresponds to a protein of the invention.

Sequence 524 AA

ö Gaps ö Length 524; 1; Indels Score 46; DB 8; 3 Pred. No. 2.3e+02; 2; Mismatches 1. 76.78; Query Match
Best Local Similarity 66.7
Matches 6; Conservative 1 XGYWGKGYW 9 ö

:|:|||| | 163 SGHWGKGEW 171 g

AAY03715 standard; peptide; 8 AA. AAY03715

RESULT 14

AAY03715;

08-JUN-1999 (first entry)

Fluorine-18 (F-18) labeled peptide 2.

18F radionuclide, targeting vector; positron emission tomography; F-18; radiolabeling; thiol; fluorine-18. 

Synthetic

Location/Qualifiers Misc-difference

/note= "N-terminal acetylation; optionally has a free or protected thiol group"  $_2$ 

'note= "D-form residue" Misc-difference

Misc-difference 3

'note= "D-form residue"

/note= "D-form residue; optionally has a free or
protected thiol group" Misc-difference

note= "D-form residue" Misc-difference 8 Misc-difference

/note= "D-form residue"

WO9911590-A1

11-MAR-1999

98WO-US018268. 03-SEP-1998;

97US-0057485P. 03-SEP-1997;

(IMMU-) IMMUNOMEDICS INC.

Griffiths GL;

WPI; 1999-228967/19.

Radiolabeling thiol-containing peptides with fluorine-18.

Claim 14; Page 15; 22pp; English

The invention relates to a method for incorporating 18F radionuclide into peptide—containing targeting vectors for use in clinical positron emission tomography. Radiolabeling thiol-containing peptides with fluorine-18 (F-18) comprises reacting a peptide comprising a free thiol group with a labeling reagent of formula: 18F-(GH2)m-CRHZ-(GH2)n-X, or a fluorinated alkene in which at least one of the two double bonded carbon atoms bears at least one leaving group comprising I, Br, Cl, azide, tosylate, nesylate, or triflate. n = 0-2; n+m = 0-2; X = I, Br, Cl, azide, tosylate, mesylate, triflate, maleimide optionally substituted by 1-2 alkyl) or 3-sulfomaleimide; Rl, R2 = I, Br, Cl, azide, tosylate, mesylate, triflate, H, CONH2, COOH, SH, sulfomaleimide; Rl, R2 = I, Br, Cl, azide, tosylate, mesylate, unsylate, triflate, H, CONH2, COOH, SH, sulfomaleimide; Rl, R2 = I, Br, Cl, azide, tertiary amine, quaternary amonium, alkyl (optionally quaternary amonium, alkyl (optionally core and an anonium), COOH, ONH, sulfomic acid, tertiary amine or

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phenyl. The method is used for Radiolabeling peptide-containing targeting vectors such as proteins, antibodies, antibody fragments and receptor-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "acetylated, modified with free amino acid group, protected amino acid group, chelating agent or a metal-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               group, protected amino acid group, chelating agent or a metal-chelate complex"
           Vectors such as proteins, antibodies, antibody fragments and receptor-
targeted peptides for use in routine clinical positron emission
tomography. The method is simple and efficient. The method uses the
unique property of the free thiol groups which are rapidly alkylated a
neutral pH and moderate temperature. Sequences AAY03714-716 represent
examples of F-18 labeled peptides used in the method of detecting a
                                                                                                                                                                                                                                                                                                                                                                                                                    Immunogenic peptide, bi-specific antibody, diagnosis, immune response, diseased tissue identification, therapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bi-specific antibodies that bind specific target tissue and targeted
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                                                                                                                                                   Score 45; DB 2; Length 8;
Pred. No. 1.8e+06;
0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                         AAY76817 standard; peptide; 8 AA.
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                                                                                                                                                    75.0%;
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                                                                                                                                             Query Match
Best Local Similarity
Matches 6: Congery
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14-OCT-1998;
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antibody. The invention relates to a method of treating or identifying diseased tissues in a patient comprising administering a bi-specific antibody (or fragment) having at at least 1 arm (A) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targetable conjugate. The methods and bi-specific antibodies and fusion proteins are useful for pre-targeting methods of diagnosis and therapy. It is advantageous to raise bi-specific antibodies against a targetable conjugate that is capable of carrying at least 1 diagnostic or therapeutic agent. The characteristics of the chelator, metal chelate complex, therapeutic agent or diagnostic agent can be varied to accommodate differing applications without raising new bi-specific antibodies for each new applications without raising new bi-specific collicit sufficient immune responses and also for rapid in vivo clearance when used within the bi-specific antibody targeting method
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sequence represents an immunogenic peptide for a bi-specific
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Pred. No. 1.8e+06;
0; Mismatches 1;
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Job time : 179 secs
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85.7%;
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Best Local Similarity 85.7
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

		.230, Ap	48322, A	51216, A	166, App	-4	115321,	Sequence 36469, A	Sequence 2, Appli	Sequence 136, App	128022,	48093, A	64598, A	131752,
	Description	Sequence 1230, Ap	Sequence 48322, A	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
SOUTHERIES	I.	US-09-764-864-1230	US-10-282-122A-48322	US-10-282-122A-51216	US-09-769-744A-166	US-10-472-928-4826	US-10-437-963-115321	US-10-767-701-36469	US-10-141-132-2	US-10-742-379-136	US-10-437-963-128022	US-10-282-122A-48093	US-10-425-114-64598	US-10-437-963-131752
		6	15	15	10	11	16	16	13	16	16	15	15	16
	% Query Match Length DB	164	440	446	1329	1329	98	141	911	50	172	445	453	469
	% Query Match	76.7	74.2	71.7	71.7	71.7	70.0	70.0	70.0	68.3	68.3	68.3	68.3	68.3
	Score	46	44.5	43	43	. 43	42	42	42	41	41	43	41	41
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#### ALIGNMENTS

	acids	acids	acids	acids	acids	acids
	L-amino	L-amino	L-amino	L-amino	L-amino	L-amino
Antibodies file wrapper	occurring	occurring	occurring	occurring	occurring	occurring
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RESULT 1  'Sequence 1230, Application US/09764864  'Sequence 1230, Application US/09764864  'Patent No. US20020132753A1  'GENERAL INFORMATION:  'APPLICATION NUCLEIC Acids, Proteins, and Antibodies  'TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  'TURENT APPLICATION UNMERR: US/09/764,864  CURRENT APPLICATION DATE: 2.0  'SOFTWARE: Patentin Ver. 2.0  'SEQ ID NO 1230  LENGTH: 164  'TYPE: PRT 'COSTUMISM: Homo sapiens  'FEATURE:  'NAME/KEY: SITE  LOCATION: (2)  LOCATION: (2)		OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids; NAME/KEY: SITE . LOCATION: (34)	; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids; NAMEKEY: SITE : LOCATION: (84)	; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids in NAMEKEY: SITE SITE : 1.CATION: (119)	) OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids NAME/KEY: SITE	GTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

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Query Match
Best Local Similarity
Matches 5; Conserv
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US-09-769-744A-166
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LOCATION: (140)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                     LOCATION: (143)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids US-09-764-864-1230
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PRIOR PAPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR FILING DATE: 2000-03-21

PRIOR FILING DATE: 2000-05-23

PRIOR FILING DATE: 2000-05-23

PRIOR FILING DATE: 2000-05-63

PRIOR FILING DATE: 2000-05-66

PRIOR FILING DATE: 2000-05-66

PRIOR FILING DATE: 2000-05-66

PRIOR FILING DATE: 2000-05-69

PRIOR FILING DATE: 2000-09-69

PRIOR FILING DATE: 2000-10-21

PRIOR FILING DATE: 2000-10-21

PRIOR PLING DATE: 2000-10-22

PRIOR PLING DATE: 2000-11-27

PRIOR PLING DATE: 2000-11-27

PRIOR PLING DATE: 2000-10-22

PRIOR PLING DATE: 2001-20-22

PRIOR FILING DATE: 2001-20-22

PRIOR FILING DATE: 2001-02-06

PRIOR FILING DATE: 2001-02-06

PRIOR FILING DATE: 2001-02-06

PRIOR PLING DATE: 2001-02-06

PRIOR PRIOR APPLICATION NUMBER: 60/269,308

PRIOR PLING DATE: 2001-02-06

PRIOR PRIOR PLING DATE: 2001-02-06

PRIOR PLING DATE: 2
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CURRENT APPLICATION NUMBER: 105.10/202,122A
CURRENT FILING DATE: 2003-0.2-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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74.2%; Score 44.5; DB 15; Length 440;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 1
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76.7%; Score 46; DB 9; Length 164;
Best Local Similarity 66.7%; Pred. No. 38;
Matches 6; Conservative 2; Mismatches 1; Indels
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Wall, Daniel
Trawick, John
Carr, Grant
Yamamoto, Robert
Forsyth, R.
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APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   124 SGHWGKGEW 132
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US-10-282-122A-48322
                                                                               NAME/KEY: SITE
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APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REPERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ÷
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                                                                                                                                                                                                          Sequence 51216, Application US/10282122A Publication No. US20040029129A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT FILLING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR PILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR PLING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR PILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-06
PRIOR FILING DATE: 2000-09-06
PRIOR PILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR PILING DATE: 2000-10-23
PRIOR PILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR PILING DATE: 2000-11-27
PRIOR PELING DATE: 2000-11-27
PRIOR PELING DATE: 2001-12-09
PRIOR PELING DATE: 2001-12-09
PRIOR PILING DATE: 2001-02-09
PRIOR PELING DATE: 2001-02-09
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Publication No. US20030134407A1
GENERAL INPORMATION:
APPLICANT: Le Page, Richard WF
APPLICANT: Wells, Jeremy M
APPLICANT: Hanniffy, Sean B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Bordetella pertussis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Carr, Grant
Yamamoto, Robert
Forsyth, R.
                                                                                                                                                                                                                                                                                                   APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
ARPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5; Conservative
                                                        211 PĠŸŴĠ-ĠŸŴ 218
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25 PGAWGEGFW 33
1 XGYWGKGYW 9
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Page 3

APPLICANT: Boukharov, Andrey A.

APPLICANT: Barbauk, Brad

APPLICANT: Li, Ping

TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53221)B

CURRENT APPLICATION NUMBER: US/10/437,963

CURRENT PILLING DATE: 2003-05-14

NUMBER OF SEQ ID NOS: 204966

SEQ ID NO 115321

LENGTH: 98
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Publication No. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      70.0%; Score 42; DB 16; Length 98; 66.7%; Pred. No. 87; tive 1; Mismatches 2; Indels
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US-10-767-701-36469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Clone ID: PAT_MRT4530_1892C.1.pep
US-10-437-963-115321
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Publication No. US20020132331A1
GENERAL INFORMATION:
APPLICANT: Wei et al.
TITLE OF INVENTION: Human DNA Ligase IV
FILE REPERENCE: FF142P1D1
CURRENT APPLICATION NUMBER: US/10/141,132
CURRENT FILING DATE: 2002-05-09
FRIOR PLING DATE: 1995-06-05
PRIOR PLING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: PCT/US94/12922
PRIOR FILING DATE: 1994-11-08
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SOFTWARE: PatentIn version 3.1
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Best Local Similarity 66.7
Matches 6; Conservative
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Best Local Similarity 66.7
Matches 6; Conservative
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ORGANISM: Sorghum bicolor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36 HGRWGKGRW 44
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Publication No. US20050020813A1
GENERAL INFORMATION:
APPLICANT: CHIRON SpA
APPLICANT: THE INSTITUTE FOR GENOMIC RESEARCH
TITLE OF INVENTION: STREPTOCCCCUS PNEUMONIAE PROTEINS AND NUCLEIC ACIDS
FILE REFERENCE: P026926W0
CURRENT APPLICATION NUMBER: US/10/472,928
CURRENT FILING DATE: 2003-09-26
RIOR PEDICONTION NUMBER: GB-0107658.7
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 4979
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OTHER INFORMATION: Cellular location: Peptidoglycan-bound (LPXTG)
OTHER INFORMATION: Feature of note: WYY motif
OTHER INFORMATION: Similar to strain R6 sequence 15902101 (0.5+01)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71.7%; Score 43; DB 17; Length 1329; 55.6%; Pred. No. 6.6e+02; ative 2; Mismatches 2; Indels (
                                                                                                                                                                                                 APPLICANT: Hansbro, Philip M
TITLE OF INVENTION: Proteins
FILE REFERENCE: PWC/P21122W
CURRENT APPLICATION NUMBER: US/09/769,744A
CURRENT FILING DATE: 2001-01-26
FRIOM FILING DATE: 1999-07-27
PRIOM FILING DATE: 1998-07-27
PRIOM FILING DATE: 1998-03-19
NUMBER OF SEQ ID NOS: 196
SOFTWARE: PATENTIN VET. 2.1
SOFTWARE: PATENTIN VET. 2.1
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Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity 55.6
Matches 5; Conservative
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Best Local Similarity 55.6
Matches 5; Conservative
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886 ISYWSKGWW 894
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886 ISYWSKGWW 894
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LENGTH: 1329
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APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITAA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-202-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-09-06
PRIOR FILING DATE: 2000-09-06
PRIOR FILING DATE: 2000-09-09
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-11-27
PRIOR PRILING DATE: 2000-11-27
PRIOR PRILING DATE: 2000-11-22
PRIOR PRILING DATE: 2000-12-22
PRIOR PRILING DATE: 2001-12-22
PRIOR PRILING DATE: 2001-02-16
PRILING DATE: 2001-02-16
PRILING DATE: 2001-02-16
PRING PRILING DATE: 2001-02-16
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                                                                                                                                                                                                                                               68.3%; Score 41; DB 16; Length 172;
55.6%; Pred. No. 2e+02;
tive 2; Mismatches 2; Indels
    LOCATION: (1)..(172)
COTHER INFORMATION: unsure at all Xaa locations
PRATURE:
PRATURE:
COTHER INFORMATION: Clone ID: PAT_MRT4530_30416C.1.pep
US-10-437-963-128022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 48093, Application US/10282122A Publication No. US20040029129A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wall, Daniel
Trawick, John
Carr, Grant
Yamamoto, Robert
Forsyth, R.
                                                                                                                                                                                                                                                   Query Match 68.3
Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 68.3
Best Local Similarity 75.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      36 GGMWGRQYW 44
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137 AGYWKKGY 144
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US-10-282-122A-48093
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publication No. US20040123343A1

GENERAL INFORMATION:
    APPLICANT: La Rosa, Thomas J.
    APPLICANT: Cao, Vibua
    APPLICANT: Cao, Yongwei
    APPLICANT: Boukharov, Andrey A.
    APPLICANT: Boukharov, Andrey A.
    APPLICANT: Boukharov, Andrey A.
    APPLICANT: Brabazuk, Brad
    APPLICANT: Brad
    APPLICANT:
                                                                                                                                                                                                                                                                                                                                  ö
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Publication No. US20040181033A1

GENERAL INFORMATION:

APPLICANT: Han, HQ

APPLICANT: Min, Hosung

TITLE OF INVENTION BINDING AGENTS WHICH INHIBIT MYOSTATIN

FILE REFERENCE: A-828 (US)

CURRENT APPLICATION NUMBER: US/10/742,379

CURRENT FILIAG DATE: 2003-12-19

PRIOR APPLICATION NUMBER: US 60/435,923

PRIOR APPLICATION NUMBER: US 60/435,923

PRIOR PILING DATE: 2002-12-20

NUMBER OF SEQ ID NOS: 634

SOFTWARE: Patentin version 3.2

LENGTH: 50
                                                                                                                                                                                                                                           Score 42; DB 13; Length 911;
Pred. No. 6.5e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              68.3%; Score 41; DB 16; Length 50; 55.6%; Pred. No. 66; tive 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Myostatin Binding Peptide US-10-742-379-136
                                                                                                                                                                                                                                           70.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 55.0.
                                                                                                                                                                                                                                           Query Match 70.0
Best Local Similarity 85.7
Matches 6; Conservative
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ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                     :||||||
468 GGYWGKG 474
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                                                                                  TYPE: PRT
ORGANISM: human
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LENGTH: 172
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SEQ ID NO 2
LENGTH: 911
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Sequence 184877, Application US/10424599
; Sequence 184877, Application US/10424599
; Sequence 184877, Application No. US20040031072A1
; Sequence 184877, Application No. US20040031072A1
; Sequence 184877
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                                                                                                                                                         APPLICANT: Ardrea Peter McIntyre
APPLICANT: Andrea Peter McIntyre
APPLICANT: Etar Bevan
APPLICANT: Chuanzheng Song
APPLICANT: Chuanzheng Song
APPLICANT: Chuanzheng Song
APPLICANT: Chuanzheng Song
TITLA OF INVENTION: VANILLOID RECEPTOR-RELATED NUCLEIC ACIDS
TITLE OF INVENTION: VANILLOID RECEPTOR-RELATED NUCLEIC ACIDS
TITLE OF INVENTION: VANILLOID RECEPTOR-RELATED NUCLEIC ACIDS
TITLE OF INVENTION: AND POLYPEPTIDES
FILE REFERENCE: 4-32048A
CURRENT FILING DATE: 2002-10-24
PRIOR APPLICATION NUMBER: 60/351,238
PRIOR PILING DATE: 2002-01-22
PRIOR PILING DATE: 2002-01-22
PRIOR PILING DATE: 2002-01-29
PRIOR PILING DATE: 2002-01-39
PRIOR PILING DATE: 2002-01-39
PRIOR FILING DATE: 2002-01-36
PRIOR FILING DATE: 2002-01-36
SPRIOR FILING DATE: 2002-01-36
NUMBER OF SEQ ID NOS: 114
SCOFTWARE: FastSEQ for Windows Version 4.0
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; OTHER INFORMATION: Clone ID: PAT_MRT3847_13795C.1.pep
US-10-424-599-184877
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OTHER INFORMATION: unsure at all Xaa locations
Sequence 11, Application US/10171319
Publication No. US20030157633A1
GENERAL INFORMATION:
APPLICANT: Ardem Patapoutian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 68.3
Best Local Similarity 55.6
Matches 5; Conservative
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Best Local Similarity 66.7
Matches 6; Conservative
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152 GGVWGRGLW 160
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ORGANISM: Homo sapiens
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ORGANISM: Glycine max
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; Sequence 131752, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Exovalic, David K.
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wai
; APPLICANT: Wu, Wai
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; A
                                                                                                               Sequence 64588, Application US/10425114

Sequence 64588, Application US/10425114

GENERAL INFORMATION.

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Screen, Steven E

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Tabaska, Jack E

APPLICANT: APPLICANT: Absorbed E

APPLICANT: Screen, Steven E

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Screen, Steven E

APPLICANT Screen, Steven E

APPLICANT: Screen, Steven E

APPLIC
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Pred. No. 4.8e+02;
2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        68.3%; Score 41; DB 16; Length 469;
66.7%; Pred. No. 5e+02;
tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Indels
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US-10-437-963-131752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Clone ID: LIB4172-021-C8_FLI.pep
US-10-425-114-64598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       68.3%;
55.6%;
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Best Local Similarity 66.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 55.6
Matches 5; Conservative
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199 GSYGGKGYW 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                33 HGMWGRHYW 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 XGYWGKGYW 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 XGYWGKGYW 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 13
US-10-437-963-131752
                                                                                        US-10-425-114-64598
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LENGTH: 453
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US-10-171-319-11
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Tue Apr 19 06:58:38 2005

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Search completed: April 19, 2005, 06:55:18 Job time : 133 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model
Run on:
April 19, 2005, 06:36:32 ; Search time 41 Seconds
(without alignments)
16.386 Million cell updates/sec
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16.386 Million
Title: SEQ2
Perfect score: 60
Sequence: 1 xgywgkgyw 9
Scoring table: BLOSUM62DX
Gapop 10.0 , Gapext 0.5

Searched: 513545 segs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0 Maximum DB seq length: 200000000 Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Database: Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*
4: /cgn2\_6/ptodata/1/iaa/BCOMB.pep:\*
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*
6: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

		d			SUMMARIES		
Result No.	Score	Query Match	Query Match Length	DB	ID	Description	
	48	80.0	1365	m	US-09-376-330-18	Sequence 18, Appl	
7	44.5	74.2	339	4	US-09-252-991A-26841	268	
m	44	73.3		4	US-09-252-991A-29457	2945	
4	43	71.7	1290	4	US-09-107-433-4399	•	
ις	43	71.7		4	US-09-583-110-5037		
9	42	70.0		4	US-09-341-505-2	• •	
7	42	70.0		4	US-08-461-562B-2	•••	
ω	42	70.0	922	4	-09-905	121	
6	41	68.3		~	US-08-860-174A-7	•	
10	41	68.3		7	US-08-860-174A-12	12,	
11	41	68.3	282	~	US-08-860-174A-10	Н	
12	41	68.3		4	US-09-248-796A-14837	1483	
13	41	68.3	1447	М	US-09-376-330-17	Н	
14	40	66.7		4	US-09-471-276-837	837,	
15	40	66.7		4	US-09-540-236-2481	2481	
16	40	66.7	624	m	US-08-947-965-78	78,	
17	40	66.7	655	7	US-08-469-202-27	27,	
18	40	66.7	655	Н	US-08-469-202-28	28,	
19	40	66.7	655	~	-08-484-434C-3	m	
20	40	66.7	655	~	US-08-484-434C-35	35,	
21	40	66.7	655	4	-09-384-361-3	34,	
22	40	Ġ.	655	4	US-09-384-361-35	35,	
23	39	65.0	52	4	US-09-513-999C-4456	4456	
24		65.0	100	4	US-09-513-999C-5031	5031,	
25	39	65.0	126	4	-09-902-	15783,	
56	39	65.0	185	4	-09-583-110-28	2898,	
27	39	65.0	196	4	US-09-107-433-5167		

, Ap	18, A	14600	5194600	, Ap	ppli	Appli	, Ap	4, A	Appl	Appl	Appl	App	App	Appl	Appl	Appl	Appl
2002,	21708,	513	513	4506	7 '6	7 '6	6122,	11644,	12,	, 66	66	296,	144,	66	66	99,	66
Sequence	Sequence	Patent No. 5194600	Patent No.	Sequence 4506, Ap	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
US-09-543-681A-5005	US-09-252-991A-21708	5194600-4	5194600-4	US-09-107-433-4506	US-09-910-174B-9	US-09-620-461-9	US-09-949-016-6122	US-09-949-016-11644	US-09-419-381-12	US-07-853-408B-99	US-08-308-865-99	US-09-042-353-296	US-08-758-417A-144	US-08-053-131-99	US-08-645-641-99	US-08-096-762-99	PCT-US92-10983-99
4	4	9	v	4	4	4	4	4	4	Н	~	m	m	н	Н	~	Ŋ
286	346	1365	1365	2238	526	526	526	540	12	29	29	53	29	30	30	30	30
65.0	65.0	65.0	65.0	.65.0	64.2	64.2	64.2	64.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
39	39	39	39	39	38.5	38.5	38.5	38.5	38	38	38	38	38	38	38	38	38
28	59	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

#### ALIGNMENTS

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Sequence 2681, Application US/09252991A

Sequence 2681, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:
APPLICANT:
MAIC J. Rubenfield et al.
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT PILING DATE: 1998-02-18

PRIOR PILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-07-18

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142
                  Sequence 18, Application US/09376330
Sequence 18, Application US/09376330
Sequence 18, Application US/09376330
Sequence 18, Application US/09376330
APPLICANT: Tessier, Daniel C.
APPLICANT: Bergeron, John J.M.
APPLICANT: Thomas, David Y.
TITLE OF INVENTION: Wethod for screening for TITLE OF INVENTION: UDP-glucose:glycoprotein glucosyltransferase (UGGT) activity
TITLE OF INVENTION: and nucleic acid encoding for UGGT
TITLE OF INVENTION UNMER: US/09/376,330
CURRENT APPLICATION NUMBER: US/09/376,330
CURRENT PELICATION NUMBER: US/09/376,330
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80.0%; Score 48; DB 3; Length 1365; 66.7%; Pred. No. 48; 1; Indels 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: S. cerevisiae KRE5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 66.7
Matches 6; Conservative
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1233 DGYWKEGYW 1241
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                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 18
LENGTH: 1365
US-09-376-330-18
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APPLICANT: Lynn Doucette-Stamm et al.

TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
TITLE OF INVENTION: Parlow of the properties and Therapeutics
TITLE OF INVENTION: Parlow of the properties and Therapeutics
FILE REFERENCE: PATHOO 0.7A
CURRENT APPLICATION NUMBER: US/09/583,110
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/107,433
PRIOR APPLICATION NUMBER: US 60/085,131
PRIOR FILING DATE: 1998-05-12
PRIOR FILING DATE: 1998-05-12
PRIOR FILING DATE: 1998-05-12
PRIOR FILING DATE: 1997-07-02
NUMBER OF SEQ ID NOS: 5322
SEQ ID NOS: 5322
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Pred. No. 2.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         71.7%; Score 43; DB 4; Le 55.6%; Pred. No. 2.4e+02; vative 2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: misc feature
LOCATION: (B) LŌCATION 1...1290
SEQUENCE DESCRIPTION: SEQ ID NO: 4399:
                                            ATTORNEY/AGENT INFORMATION
REGISTRATION NUMBER: 40,489
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
    FILING DATE: May 12, 1998
APPLICATION NUMBER: 60/051553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 5037, Application US/09583110
; Patent No. 6699703
; PAPEAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                           LENGTH: 1290 amino acids
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                                                                                                                                                                                                                 TELBFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4399:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       71.7%;
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                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 71.7
Best Local Similarity 55.6
Matches 5; Conservative
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Best Local Similarity 55.6
Matches 5, Conservative
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847 ISYWSKGWW 855
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 1303
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US-09-341-505-2
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                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 29457, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
TITLE REFERENCE: 10196-138
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR FILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 29457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 4
US-09-107-433-4399
US-09-107-433-4399

j Sequence 4399, Application US/09107433

j Patent No. 6800744

j GENERAL INFORMATION:

j APPLICANT: Lynn A Doucette-Stamm and David Bush

j APPLICANT: Lynn A Doucette-Stamm and David Bush

j TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID

j TITLE OF INVENTION: THERAPEUTICS

THERAPEUTICS
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                                                                                                                                                DB 4; Length 339;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 73.3%; Score 44; DB 4; Length 383; Best Local Similarity 66.7%; Pred. No. 54; Matches 6; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENČE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
                                                                                                                                        74.2%; Score 44.5; Di
77.8%; Pred. No. 41;
Live 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: cUrknown>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER: «Unknown»
OPERATING SYSTEM: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 100 Beaver Street
                   LENGTH: 339
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OKGANISM: Pseudomonas aeruginosa
US-09-252-991A-29457
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STATE: Massachusetts
                                                                                                                                      Query Match
Best Local Similarity 77.8
Matches 7; Conservative
                                                                                                                                                                                                                                                                     260 GGYWG-GYW 267
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                                                                                            US-09-252-991A-26841
SEQ ID NO 26841
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Best Local Similarity 85.7
Matches 6; Conservative
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## APPLICANT: Critchlow, Susan E

TITLE OF INVENTION: Assays, agents, therapy and diagnosis relating to TITLE OF INVENTION: modulation of cellular DNA repair activity
FILE NETREBRICE: MEWE-005

CURRENT FILING DATE: 1999-07-12

CURRENT FILING DATE: 1998-01-13

EARLIER FILING DATE: 1998-01-13

EARLIER FILING DATE: 1998-01-13

EARLIER FILING DATE: 1997-01-13

EARLIER FILING DATE: 1997-01-13

EARLIER FILING DATE: 1997-01-13

EARLIER FILING DATE: 1997-06-20

NUMBER OF SEQ ID NOS: 18

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 2

LENGTH: 844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                         Score 42; DB 4; Length 844; Pred. No. 2.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATUR SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,562B
FILING DATE: 05-JUN-1995
CLASSIFICATION DATA: APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/12922
ATFORNEY/AGBAT INPORMATION:
NAME: A. ANDERS BROOKES
REGISTRATION NUMBER: 36,373
REGISTRATION NUMBER: 36,373
REGISTRATION INFORMATION:
TELEPPAK: 301-309-8504
TELEPPAK: 301-309-8634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: WELY YING-FEI
APPLICANT: WELY YING-FEI
APPLICANT: HASELTINE, WILLIAM H
APPLICANT: HASELTINE, WILLIAM H
APPLICANT: HASELTINE, WILLIAM H
APPLICANT: HORNERS: 9
CORRESPONDENCE ADDRESS: 9
CORRESPONDENCE ADDRESS: STREET: 9410 KEY WEST AVE
CITY: ROCKVILLE
STATE: MD
COUNTRY: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 2, Application US/08461562B Patent No. 6455274
                                                                                                                                                                                                                                                                                                                                                                                                                           70.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 301-309-8439
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 911 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 85./*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                   ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-341-505-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : | | | | | | | 401 GGYWGKG 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 XGYWGKG 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20850
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70.0%; Score 42; DB 4; Length 911;

Query Match

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Sequence 12187, Application US/09902540

Patent No. 683347

GENERAL INFORMATION:
APPLICANT: Glodman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Blater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(15849) B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT PILING DATE: 2001-07-10
PRIOR FILING DATE: 2000-07-10
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 12187
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                       Gaps
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                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1. Application US/08860174A

Sequence No. 598930

GENERAL INFORMATION:
APPLICANT: DAVIS, Paul James
APPLICANT: VERHOELIGN, Martine Elisa
APPLICANT: WISON, Steve
ITTLE OF INVENTION: A BIFUNCTIONAL OR BIVALENT
ITTLE OF INVENTION: ANTIBODY FRAGMENT ANALOGUE
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLSBURY, MADISON & SUTRO LLP
STREET: 1100 New York Avenue, N.W.
STREET: 9th Floor, East Tower
CITY: WASHINGTON, D.C.
85.7%; Pred. No. 2.3e+02;
iive 1; Mismatches 0

   LOCATION: (1) .. (922)
   CTHER INFORMATION: unsure at all Xaa locations
US-09-902-540-12187

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ZIP: 20005-3318
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS DOS 7
SOFTWARE: MS WORD, MINDOWS 95, Ver. 4.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/860,174A
FILING DATE: June 16, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: EP 95307332.7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT ORGANISM: Myxococcus xanthus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              730 GGVWGENYW 738
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                                                                                              : | | | | | | | | 468 GGYWGKG 474
                                                                 1 XGYWGKG 7
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US-09-902-540-12187
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                                                                                                                                                                                                                                                                                             0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: DAVIS, Paul James
APPLICANT: DAVIS, Paul James
APPLICANT: VAN DER LOGT, Cornelis Paul Brik
APPLICANT: VERHOEIJEN, Martine Elisa
APPLICANT: VERHOEIJEN, Martine Elisa
APPLICANT: VERHOEIJEN, ARTINE Elisa
TITLE OF INVENTION: A BIFUNCTIONAL OR BIVALENT
TITLE OF INVENTION: ANTIBODY FRAGMENT ANALOGUE
NUMBER OF SEQUENCES: 31
CORRESPONDENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLEBURY, MADISON & SUTRO LLP
STREET: 1100 New YORK Avenue, N.W.
STREET: 9th Floor, East Tower
CITY: WASHINGTON, D.C.
STATE:
COUNTRY: UNITED STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 20005-3918
CCMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
COMPUTER: IBM FC compatible
COMPUTER: IBM PC COMPA:
SOFTWARE: MS WORD, WINDOWS 95, Ver. 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/860,174A
FILING APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95307332.7
                                                                                                                                                                                                                                                                                             3; Mismatches
FILING DATE: October 16, 1995
APPLICATION NUMBER: PCT/EP/96/03605
FILING DATE: Aduat 14, 1996
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 142 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: October 16, 1995
APPLICATION NUMBER: PCT/EP/96/03605
FILING DATE: August 14, 1996
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 274 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 12, Application US/08860174A Patent No. 5989830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
US-08-860-174A-10
; Sequence 10, Application US/08860174A
                                                                                                                                                                                                                             Query Match
Best Local Similarity 66...
Acc 6; Conservative
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Best Local Similarity 66./
G. Conservative
                                                                                                                                                                               MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; MOLECULE TYPE: protein US-08-860-174A-12
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Sequence 14837, Application US/09248796A
| Sequence 14837, Application US/09248796A
| Paicent No. 6747137
| GENERAL INFORMATION:
| GENERAL INFORMATION:
| TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
| TITLE OF INVENTION: POR DIAGNOSTICS AND THERAPEUTICS
| TITLE OF INVENTION: POR DIAGNOSTICS AND THERAPEUTICS
| TITLE OF INVENTION: SOR DIAGNOSTICS AND THERAPEUTICS
| TITLE OF INVENTION: SOR DIAGNOSTICS AND THERAPEUTICS
| TITLE OF INVENTION: NUMBER: US 60/074,725
| PRIOR PELLING DATE: 1998-02-13
| PRIOR FILING DATE: 1998-08-13
| NUMBER OF SEQ ID NOS: 28208
| SEQ ID NO 14837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
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Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
APPLICANT: DAVIS, FRUI COUNCEL PAUL ETIK
APPLICANT: VAN DER LOGT, Cornelis Paul ETIK
APPLICANT: VERHOBLIGEN, MARTINE Elisa
APPLICANT: WILSON, Steve
TITLE OF INVENTION: A BIFUNCTIONAL OR BIVALENT
TITLE OF INVENTION: ANTIBODY FRAGMENT ANALOGUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 41; DB 2; I
Pred. No. 1.1e+02;
                                                                                                                                                                                                                                                                                      COMPURY: UNITED STATES

ZIP: 20005-3918

COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPACIBLE
SOFTWARE: MS WORD, WINDOWS 95, Ver. 4.0
SOFTWARE: MS WORD, WINDOWS 95, Ver. 4.0
APPLICATION NUMBER: US/08/60,174A
FILING DATE: JUNE 16, 1997
FILING DATE: OCTOBER 16, 1995
FILING DATE: AUGUST 16, 1996
INPORMATION POR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                    NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLSBURY, MADISON & SUTRO LLP
STREET: 1100 New York Avenue, N.W.
STREET: 9th Floor, East Tower
CITY: WASHINGTON, D.C.
                                                                                                                                                                                                                                                                                                                                                                                                            DOS Text
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amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 66.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :||:||||:
121 HGYYGKGYF 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 XGYWGKGYW 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT ORGANISM:
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1 XGYWGKGYW 9

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Sequence 2481, Application US/09540236

Patent No. 6673910

Patent INCOMPATION:
Patent INCOMPATION:
Patent INCOMPATION:
Patent No. 677390

Patent No. 6773910

Patent No. 6773910

Patent No. 6773910

Patent No. 6773910

Patent Gary L. Breton et al.
Patent Gary L. Breton et al.
Patent Gary L. Breton NUCLEIC ACID AND THERAPEUTICS

Patent OF INVENTION: NUCLEIC ACID AND THERAPEUTICS

Patent Carry NUMBER: US/09/540,236

CURRENT APPLICATION NUMBER: US/09/540,236

CURRENT PILING DATE: 2000-04-04

NUMBER OF SEQ ID NOS: 3840

SEQ ID NO 2481

LENGTH: 588
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Best Local Similarity 44.4%; Pred. No. 3e+02;
Matches 4; Conservative 3; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-2481
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132 YWGQGTW 138
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                                                                                                                                       Sequence 17, Application US/09376330

Sequence 17, Application US/09376330

Patent No. 6399321

GENERAL INFORMATION:

APPLICANT: Dignard, Daniel C.

APPLICANT: Begracon, John J.M.

APPLICANT: Begracon, John J.M.

TITLE OF INVENTION: Method for screening for TITLE OF INVENTION: UDP-glucose:glycoprotein glucosyltransferase (UGGT) activity

TITLE OF INVENTION: and nucleic acid encoding for UGGT

TITLE OF INVENTION: and nucleic acid encoding for UGGT

TITLE OF INVENTION: 1999-08-18

CURRENT FILING DATE: 1999-08-18

NUMBER OF SEQ ID NOS: 35

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 17

LENGTH: 1477

TYPE: PRT
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Factor No. 6822072

GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Ductor Milne Edwards, J.B.
APPLICANT: Ductor No. 6822072

TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
FILE REFERENCE: GENSET.025CP1

CURRENT APPLICATION NUMBER: US/09/471,276

CURRENT FILING DATE: 1999-12.21

EARLIER FILING DATE: 1999-12.21

EARLIER PLING DATE: 1999-04-09

NUMBER OF SEQ ID NOS: 1622

SOUTHWARE: Patent.pm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: S. pombe UGGT US-09-376-330-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence FEATURE:
:|::|||:|
287 LGWFGKGFW 295
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; LOCATION: -19..-1
US-09-471-276-837
                                                                                                                            -09-376-330-17
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OM protein - protein search, using sw model

Run on:

April 18, 2005, 19:35:54 ; Search time 15.4419 Seconds (without alignments) 49.847 Million cell updates/sec

1 сумдсвуж 8 Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416

283416 seqs, 96216763 residues

Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79: \*.

1: pir1: \*

2: pir2: \*

3: pir3: \*

4: pir4: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

11100000000000000000000000000000000000	600 600 600 600 600 600 600 600 600 600	69.7	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A28716 B96704 H84430 A49739 147053 1731757 T31755 T31758 I54210 B72392 G84839 H96968 A29476 B29514 S47572 A51114	Description  saposin precursor  hypothetical prote  hypothetical prote  relaxin - horse (f  relaxin B,C and A  hypothetical prote  hypothetical prote  hypothetical prote  Nacetylgalactosam  N-acetylgalactosam  probable glycogen  hypothetical prote  late embryogenesis  integral membrane  muscarinic acetylc  hypothetical prote  hypothetical prote
41	62.1	2970	N 10	5/382/ T08839	nypounecter proce polyprotein - marm
41	62.1	2970	~	T08839	
40	9.09	113	~	PH1663	Ig heavy chain V r
40	9.09	130	-	A69894	hypothetical prote
40	9	130	0	T44809	
7	9 4	900	a c	- COSET	
7	0.00	י ה ה	4 (	196501	inyportier training
40	9.09	415	N	H86204	O
40	9.09	441	~	F83694	short-chain fatty
40	9.09	456	~	T40367	n-acetylglucosamin
40		111			

saposin precursor	saposin precursor	INDAl protein - fu	angiotensin-conver	major high-(glycin	hypothetical prote	conserved hypothet	probable dCTP deam	probable phosphoes	nitrogenase (EC 1.	hypothetical prote	oxidoreductase (EC	inositol-1,4-bisph	hypothetical prote	nitrogenase (EC 1.	nitrogenase molybd
SAHUP	H0604	533212	JC5374	KRSH16	H84004	A69846	H72759	G83242	850136	T38935	AF3304	A39254	T05664	NIAIMA	AF1986
C)	'														
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-1	-	573 1 (	630 2	62 1	116 2	118 1	163 2	270 1	304 2	317 2	332 2	400 2	466 2	480 1	497 2
527 1 8	-			60	_	_	59.1 163 2	_	-	-	_	_	59.1 466 2	_	_
527 1 8	557 1			60	_	_	-4	_	-	-	_	_	_	_	_

# ALIGNMENTS

RESULT 1 A28716 saposin precursor - rat NyAlternate names: cerebroside sulfate activator protein; co-beta-glucosidase; component NyAlternate names: cerebroside sulfate activator protein (SAP); sphingolipid activator protein A2; sulfated glycoprotein 1; sulfatide sulfat: N;Contains: prosaposin; saposin A; saposin B; saposin C; saposin D C;Species: Rattus norvegicus (Norway rat) C;Species: Rattus norvegicus (Norway rat)
Cipate: 10-Sep-1999 #Sequence_revision 10-Sep-1999 #text_ciange 09-501-2004 CiAccession: A28716 RiCollard, M.W.; Sylvester, S.R.; Tsuruta, J.K.; Griswold, M.D. Biochemistry 27, 457-4564, 1988 A;Title: Biosynthesis and molecular cloning of sulfated glycoprotein 1 secreted by rat
AyAccession: AZS710 A;Wolecule type: mRNA A;Residues: 1-554 <col/> A;Cross-references: UNIPROT:P10960; GB:M19936; NID:G206904; PIDN:AAA42136.1; PID:G20690 A;Note: parts of this sequence, including the amino end of the mature protein, were det C;Function: sanosins bind sphingolipids. form hydrophilic complexes and make them ac
A Pathway: sphingolipid catabolism A house saposins A and C (3AP-2) activate hydrolysis of glucocerebroside by beta-glucos; A,Note: saposins A and C (3AP-2) activate hydrolysis of galactocerebroside sulfate by arylsul; A,Note: saposin D activates hydrolysis of sphingomyelin by sphingomyelin phosphodiester C; Superfamily: saposin; saposin repeat homology C; Keywords: alternative splicing; glycoprotein; lysosomal storage disease; lysosome; spl F;1-16/Domain: signal sequence #status predicted <81G> F;1-16/Domain: signal sequence #status predicted <81G> F;1-16/Domain: signal sequence #status predicted <81G>
 Fish-143/Product: saposin repeat homology <a href="#">Fish-143/Product: saposin Repeat homology <a href="#">Fish-143/Product: saposin Repeat homology <a href="#">Fish-143/Product: saposin repeat homology <a href="#">Fish-24-273/Product: saposin Repeat homology <a href="#">Fish-24-270/Product: saposin Repeat homology <a href="#">Fish-24-270/Product: saposin D#</a> ## status predicted <a href="#">Fish-2514/Product: saposin D#</a> ## status predicted <a href="#">Fish-2714/Product: saposin D#</a> ## status predicted <a href="#">Fish-2714/Productin D#</a> ## status predicted <a href="#">Fish-2714/Produ</a></a></a></a></a></a></a></a></a>

69.7%; Score 46; DB 1; Length 554; 75.0%; Pred. No. 18; 2; Indels tive 0; Mismatches 2; Indels Query Match Best Local Similarity 75.0 Matches 6; Conservative 1 CYWGCGYW 8 ò

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Gaps

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RESULT 2 E96704 hypothetical protein T23K23.3 [imported] - Arabidopsis thaliana

Gaps

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(in mature form) #status experim
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A;Experimental source: strain Bristol N2; clone C07G3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C; Species: Caenorhabditis elegans
C; Species: Cae-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C; Accession: T31579
Submitted to : Wamsley, P.
Submitted to the EMBL Data Library, July 1997
A; Reference number: Z21080
A; Reference number: Z21080
A; Accession: T31757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Equus sp.
C;Date: 04-Sep-1997 #sequence_revision 07-Nov-1997 #text_change 16-Jul-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: GB:S78800; NID:g1042059; PIDN:AAB35036.1; PID:g1042060
C;Superfamily: insulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 342;
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          A; Molecule type: protein
A; Residues: 1-28 <STE>
A; Cross-references: UNIPROT: P22969
A; Accession: A99739
A; Molecule type: protein
A; Residues: 29-48 <STZ>
C; Superfamily: insulin
C; Keywords: hormone; pyroglutamic acid
F; 1-28, 29-48/Product: relaxin #status experimental <MAT>
F; 1-28 Domain: chain B #status experimental <CHA>
F; 20-48/Domain: chain A #status experimental <CHA>
F; 1-29, Modified site: pyrrolidone carboxylic acid (Gln) (in F; 10-34, 22-39, 35-48/Disulfide bonds: #status predicted
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A;Molecule type: DNA
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100.0%; Pred. No. 23;
ative 0; Mismatches
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A,Introns: 66/3; 122/2; 167/2; 214/3; 319/1
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Best Local Similarity 100.
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Best Local Similarity luv...
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Best Local Similarity
Matches 5, Conserv
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A; Residues: 1-143 < KLO>
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                                    Cidence 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
CiAccession: E96704
Ciaccessio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A,Molecule type: DNA'
A;Residues: 1-269 <STO>
A;Cross-treferences: UNIPROT:Q9C9X6; GB:AE005173; NID:g6553884; PIDN:AAF16550.1; GSPDB:GN C;Genetics: A;Gene: T23X23.3
A;Gene: T23X23.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypothetical protein At2g01930 [imported] - Arabidopsis thaliana
("Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Peb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
C;Accession: H84430
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; Vanaken, S.E.; Umayam, L.; Tallon, L.
euss, D.; Mierman, W.C.; White, O.; Elsen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A,Cross-references: UNIPROT:Q9SKD0, GB:AE002093; NID:g6598329; PIDN:AAF18588.1; GSPDB:GN
C,Genetics:
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C;Species: Equus caballus (domestic horse)
C;Species: Equus caballus (domestic horse)
C;Species: O7-Apr-1994 #sequence_revision 26-May-1995 #text_change 09-Jul-2004
C;Accession: B49739; A49739
R;Stewart, D.R.; Nevins, B.; Hadas, E.; Vandlen, R.
Endocrinology 129, 375-383, 1991
A;Title: Affinity purification and sequence determination of equine relaxin.
A;Reference number: A49739; MUID:91275796; PMID:2055195
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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Pred. No. 13;
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Best Local Similarity 77.8
Matches 7; Conservative
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Best Local Similarity 77.8
Matches 7; Conservative
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A;Map position: 2
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R;Kunieda, T. Gebonaics 29, 582-587, 1995
A;Title: Mucopolysaccharidosis type VI in rats: Isolation of cDNAs encoding arylsulfata A;Title: Mucopolysaccharidosis type VI in rats: Isolation of cDNAs encoding arylsulfata A;Reference number: 154210
A;Accession: 154210
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Residus: 1-473 <RES>
A;Cross-references: UNIPROT:P50430; GB:D49434; NID:g1065603; PIDN:BAA08412.1; PID:g1089
C;Genetics:
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Molecule type: DNA
A,Residues: 1-533 (PET>
A,Cross-references: UNIPROT:P15848; EMBL:X72735; NID:g289009; PIDN:CAA51272.1; PID:g825
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A; Residues: 1-104 < MOD>
A; Residues: 1-104 < MOD: 0.1 Cohmidt. B: Rommerskirch, W:; Rupp, K:; Zuehlsdorf, M:; Vingron, M.; Mey. U. Biol. Chem. 265, 313-43381, 1990
A; Title: Phylogenetic conservation of arylsulfatases. cDNA cloning and expression of hup. A; Reference number: A35078, MUID: 90153994; PMID: 2303452
A; Reference number: A35078, MID: 9153994; PMID: 2303452
A; Residues: 1-357, VV, 359-533 < PE2>
A; Residues: 1-357, VV, 359-533 < PEZ
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A; Note: sequence extracted from NCBI backbone (NCBIN:5777, NCBIP:57778)
A; Note: the enzyme is referred to as EC 3.1.6.1
A; Note: parts of this sequence, including the amino end of the mature protein, were det. A; Note: a form is described with a proteolytic cleavage somewhere between residue 450 as E; jun, W.D.; Jackson, C.E.; Desnick, R.J.; Schuchman, B.H.
Am. J. Hum. Genet: 50, 795-800, 1992
A; Title: Mucopolysaccharidosis type VI: identification of three mutations in the arylsu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Superfamily: animal sulfatase
C;Keywords: sulfuric ester hydrolase
F;31/Modified site: 3-oxoalanine (Cys) #status predicted
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A;Title: Structure of the human arylsulfatase B gene. A;Reference number: S33307; MUID:93332648; PMID:7687847
A;Accession: S33307
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C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31755
R;Geisel, C.; Wamsley, P.
Submitted to the EMBL. Data Library, July 1997
A;Description: The sequence of C. elegans cosmid C07G3.
A;Reference number: 221080
A;Reference number: 221080
A;Reference number: 221080
A;Reference number: 221080
A;Retaus: preliminary; translated from GB/EMBL/DDBJ
A;Accession: T31755
A;Retus: preliminary; translated from GB/EMBL/DDBJ
A;Retus: preliminary; translated from GB/EMBL,Apol6432; PIDN:AAB65378.1; GSPDB:GN00023; CESP:
A;Experimental source: strain Bristol N2; clone C07G3
A;Gene: CESP:C073.6
A;Gene: CESP:C073.6
A;Gene: CESP:C073.6
A;Antrons: 66/3; 122/2; 167/2; 214/3; 319/1
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Lybothetical protein C07G3.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Object 1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31758
R;Geisel, C.; Wamsley, P.
R;Geisel, C.; Wamsley, July 1997
R;Reference number: Z21080
R;Reference number
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A;Map position: 5
A;Introns: 66/3; 122/2; 167/2; 214/3; 319/1
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Matches 5; Conserv
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C; Species: Mycobacterium tuberculosis
C; Species: Mycobacterium tuberculosis
C; Species: Mycobacterium tuberculosis
C; Date: 17-Unl-1998 #sequence_revision 17-Unl-1998 #text_change 09-Jul-2004
C; Accession: D70770
R; Davies, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon, S; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamilin, N.; Holroyd, S. Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
Nature 393, S37-544, 1998
A; Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G.
A; Authors: Sqares, R.; Sulston, J.E.; Taylor, R.; Whitehead, S.; Barrell, B.G.
A; Atitle: Deciphering the biology of Mycobacterium tuberculosis from the complete genome A; Recession: D70770
A; Recession: D70770
A; Recession: D70770
A; Recession: preliminary; nucleic acid sequence not shown; translation not shown
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C;Species: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: B72392
R;Nelson, KE.; Clayton, R.A.; Gill, S.R.; Gwinn, M.L.; Dodson, R.J.; Haft, D.H.; Hickey
Garrett, M.M.; Stewart, A.M.; Cotton, M.D.; Pratt, M.S.; Phillips, C.A.; Richardson, D.;
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Affile: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
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A;Experimental source: strain MSB8
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A,Reference number: A72200; MUID:99287316; PMID:10360571
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الا Mycogen phosphorylase - Mycobacterium tuberculosis (strain H37RV)
الا Mycobacterium tuberculosis
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Pred. No. 95;
0; Mismatches
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Pred. No. 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A,Molecule type: DNA
A,Residues: 1-863 <COL>
A,Cross-references: UNIPROT:Q10639;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C,Genetics:
A,Gene: glgP
C,Superfamily: glucan phosphorylase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Experimental source: strain H37Rv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     63.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              62.1%;
50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 71.3
Best Local Si Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |:| |:|
CFWSWGFW 12
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Matches 4; Conserv
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A;Molecule type: DNA
A;Residues: 1-83 <ARN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 YWGCGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Accession: B72392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Gene: TM0315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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G84839
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                                          A; Accession: A42449
A; Molecule type: mRNA
A; Residues: 115-116, R*,118 < JIN>
A; Molecule type: mRNA
A; Residues: 215-116, R*,118 < JIN>
A; Molecule type: mRNA
A; Residues: 224-235, P*, 237-238 < JIS
A; Molecule type: mRNA
A; Residues: 224-235, P*, 237-238 < JIS
A; Molecule type: mRNA
A; Residues: 224-235, P*, 237-238 < JIS
A; Molecule type: mRNA
A; Accession: B42449
A; Molecule type: mRNA
A; Accession: C42449
A; Molecule type: mRNA
A; Residues: 403-4449
A; Molecule type: mRNA
A; Residues: 403-4449
A; Molecule type: mRNA
A; Residues: 403-4449
A; Residues: 403-449
A; Residues: 403-449
A; Residues: 403-449
A; Reference number: A57113; MUID:95354208; PMID:7628016
A; Title: A novel amino acid modification in suffatases that is defective in multiple sull A; Reference number: A57113; MUID:95354208; PMID:7628016
A; Title: A movel amino acid modification of 3-oxoalamine, 2-amino-3-oxopropanoic acid R; Schuchman, E.H.; Jackson, C.E.; Desnick, R.J.
A; Accession: 154217; MUID:90152677; PMID:1968043
A; Reference number: Leading type: A; PMID:1968043
A; Reference number: Leading type: A; MUID:90152677; PMID:1968043
A; Reference number: Leading type: A; MUID:90152677; PMID:1968043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Accession: I54217
A;Accession: I54217
A;Actaus: preliminary; translated from GB/EMBL/DDBJ
A;Residues: 1-357, 'V.,359-375, 'M',377-533 «RES>
A;Cross-references: GB:M32373; NID:9179029; PIDN:AAA51779.1; PID:9179030
A;Cross-references: GB:M32373; NID:9179029; Miyazaki, T.; Makita, A.
Biochim. Biophys. Acta 1159, 243-247, 1992
A;Title: Components and proteolytic processing sites of arylsulfatase B from human place A;Reference number: A56865; MUD:93003385; PMID:1390929
A;Reference number: A56865; MUD:93003385; PMID:1390929
A;Residues: 41-55,424-425, 'X',427-454;466-483 «KOB>
A;Residues: 41-55,424-425, 'X',427-454;466-483 «KOB>
A;Residues: 41-55,424-425, 'X',427-454;466-483 «KOB>
A;Rote: sequence modified after extraction from NCBI backbone
A;Note: sequence modified after extraction ends of the alpha, gamma, and beta chains of t
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A; Map position: 5q11-5q13
A; Map position: 5q11-5q13
A; Map position: 5q11-5q13
A; Matchine: 104/3; 167/1; 230/3; 300/1; 381/2; 405/1; 446/1
A; Matchine: 104/3; 167/1; 230/3; 300/1; 381/2; 405/1; 446/1
A; Marchine: 104/3; 167/1; 230/3; 300/1; 381/2; 405/1; 446/1
A; Description: hydrolyzes N-acetylgalactosamine-4-sulfate units in chondroitin sulfate a C; Superfamily: animal sulfatese
C; Superfamily: animal sulfatese
C; Keywords: glycoprotein; lysosomal storage disease; lysosome; sulfuric ester hydrolase F; 1-40/Domain: signal sequence #status predicted <AMAT>
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); Description: hydrolyzes N-acetylgalactosamine-4-sulfate units in chondroitin sulfate a
); Superfamily: animal sulfatase
); Reywords: glycoprotein; lysosomal storage discress lysosome; sulfuric ester hydrolase
); Reywords: glycoprotein; lysosomal storage discress lysosome; sulfuric ester hydrolase
); A1-40/Domain: signal sequence #status predicted <SIG>
); 41-423/Product: alpha chain #status predicted <GMAT>
); 421-465/Product: gamma chain #status experimental <BMAT>
); 41-457/Product: beta chain #status experimental <BMAT>
); 41-487/Product: carbohydrate (Asn) (covalent) #status predicted
); 291/Binding site: carbohydrate (Asn) (covalent) #status absent
); 426/Binding site: carbohydrate (Asn) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                     A;Reference number: A42449; MUID:92197625; PMID:1550123
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Pred. No. 65;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       h 63.6%;
Similarity 85.7%;
6; Conservative C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       YWGCGYW 8
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Best Local Similarity
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A;Cross-reference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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444 YPGCGYW 450

RESULT 11 D70770

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524 YWNLGYW 530
                                                                              2 YWGCGYW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 integral membrane protein similar to antibiotic resistance protein B. subtilis [imported C; Species: Clostridium acetobutylicum
C; Species: Clostridium acetobutylicum
C; Species: Clostridium acetobutylicum
C; Species: 14.5ep-2001 #sequence_revision 14.5ep-2001 #text_change 09-Jul-2004
C; Accession: H95068
R; Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee,
J. Batceriol. 183, 4823-4838, 2001
A; Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Clc
A; Reference number: A9690; MUID:21359325; PMID:21359325
A; Accession: H96068
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-441 <KUR>
A; Residues: 1-441 <KUR>
A; Residues: 1-441 <KUR>
A; Resperimental source: Clostridium acetobutylicum ATCC824
C; Genetics:
A; Genetics:
A; Genetics:
A; Genetics: Clostridium acetobutylicum ATCC824
C; Genetics:
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C;Species: Rattus norvegicus (Norway rat)
C;Accession: A29476
R;Brcun, T.; Schofield, P.R.; Shivers, B.D.; Pritchett, D.B.; Seeburg, P.H.
B;Accession: A29476
A;Title: A novel subtype of muscarinic receptor identified by homology screening.
A;Accession: A29476
A;A
                                                                                                         A;Cross-references: UNIPROT:Q9S7S3; GB:AE002093; NID:g3894196; PIDN:AAC78545.1; GSPDB:GN
C;Genetics:
A;Gene: At2g41260
A;Map position: 2
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F;07-90/Domain: transmembrane #status predicted <TM2>
F;142-163/Domain: transmembrane #status predicted <TM3>
F;148-206/Domain: transmembrane #status predicted <TM4>
F;30-21/Domain: transmembrane #status predicted <TM5>
F;30-21/Domain: transmembrane #status predicted <TM6>
F;492-512/Domain: transmembrane #status predicted <TM6>
F;527-545/Domain: transmembrane #status predicted <TM6>
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55;
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Pred. No. 78;
1; Mismatches 1; Indels
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Pred. No. 98;
                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                    Score 41; DB 2
Pred. No. 55;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62.1%;
71.4%;
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Best Local Similarity 60.0
Matches 6; Conservative
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Best Local Similarity
5, Conserve
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Best Local Similarity
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                                           A;Molecule type: DNA
A;Residues: 1-280 <STO>
A, Status: preliminary
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2; Indels
Mismatches
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5; Conservative
Matches
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Search completed: April 18, 2005, 19:52:01 Job time : 19.4419 secs

Trage Blank (uspto)

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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April 18, 2005, 19:37:28; Search time 71.2558 Seconds (without alignments) 57.492 Million cell updates/sec OM protein - protein search, using sw model Run on:

1 cywgcgyw 8 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1612378 seqs, 512079187 residues Searched:

1612378 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

UniProt\_03:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

pt	O9enl3 colorado ti	07s2d0 neurospora	Q7mu18 porphyromon			Ol3035 gallus gall	Q6p7a4 rattus norv	P10960 rattus norv	Q6yy22 oryza sativ								Q64qs3 bacteroides				Q61u09 photobacter			P22969 equus cabal		Q96kt3 homo sapien	bacte	Q99675 homo sapien	Q8bmj7 mus musculu	P97587 rattus norv	O16325 caenorhabdi
SUMMAKIES ID	Q9ENL3	Q7S2D0	Q7MU18	Q728W6	Q8KL42	SAP CHICK	Q6P7A4	SAP_RAT	Q6Y <u>Y</u> 22	Q9C9X6	Q9LDE2	Q6U1Z7	O9SKD0	Q8L9F3	Q7MYM7	Q8A6N9	Q64QS3	Q6IE40	Q6DTM1	Q6DTM2	Oernos	Q69T79	61dn6Ö	RELX_HORSE	Q6AZ36	Q96KT3	Q8A188	CGF1_HUMAN	CGF1_MOUSE	CGF1 RAT	016325
gth DB	182 2	134 2	841 2	181 2	208 2	518 1	553 2	554 1	93 2	269 2	279 2			285 2	463 2	840 2	845 2	78 2	135 2	145 2	•	239 2		182 1	185 2	287 2	314 2	332 1	332 1	332 1	342 2
% Query Match Length	72.7	72.0	71.2	69.7	69.7	69.7	69.7	69.7	68.9	6.89	φ.	æ	68.9	6.89	68.2	66.7	66.7	65.2	65.2			65.2	63.6	•	63.6	٠	•	٠	ë.	63.6	63.6
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016123 caenorhabdi 016126 caenorhabdi P50430 rattus norv P15648 homo sapien 010639 mycobacteri 0707877 mycobacteri 073877 mycobacteri 096898 hepatitis g 041892 hepatitis g 0949f1 thermotoga 065875 caenorhabdi 0997f1 drosophila 0817f1 arabidogsis P95462 plectonema
016323 016326 ARSB_RAT ARSB_HUWAN PHSG_MYCTU Q7U078 Q7U078 Q96898 Q94871 Q65XX5 Q9WF1 Q8L7T1
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347 351 473 863 863 871 2954 1123 1126 225 225
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# ALIGNMENTS

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208 AA
  181 AA
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  PRT;
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J. Bacteriol. 173:2411-2419(1991)
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Best Local Similarity 100...
6; Conservative
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05-JUL-2004
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              Roy A., Foley K., Naylor J., Thomann N., Barrett R., Gherre S.,

A kamal M., Kamvygeselis M., Mauceli E., Bielke C., Rudd S., Frishman D.,

Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,

A Cogoni C., Macino G., Catcheside D., Li W., Pratt R.J., Osmani S.A.,

DeSouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,

A Natriden O., Plamann M., Seller S., Dunlap J., Radford A., Aramayo R.,

A Natrig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,

A Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.;

"The Genome Sequence of the Filamentous Fungus Neurospora crassa.";

"Nature 0:0-0(2003).

-!- CAUTION: The sequence shown here is derived from an EMBL(GenBank/DDBJ whole genome shotgun (WGS) entry which is preliminary data.

EMBL ABX01000477; EAA29556.1; --

SEQUENCE 134 AA; 15465 MW; 39231A0E10C7D57B CRC64;
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Nelson K.E., Fleischmann R.D., DeBoy R.T., Paulsen I.T., Fouts D.E.,
Eisen J.A., Daugherty S.C., Dodson R.J., Durkin A.S., Gwinn M.L.,
Haft D.H., Kolonay J.F., Nelson W.C., Mason T.M., Tallon L., Gray J.,
Dewnirst F.E., Fraser C.M.;
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  Greenberg D.,
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Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Complete genome sequence of the oral pathogenic bacterium
Porphyromonas gingivalis strain W83.";
J. Bacteriol. 185:5591-5601(2003).
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Staben C., Marcotte E.,
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01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
                                                                                                                                                                                                                                                                                                                                   72.0%; Score 47.5; DB 53.8%; Pred. No. 14;
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InterPro; IPR001375; Peptidase S9.
InterPro; IPR011047; Quin_alc_DH_like.
InterPro; IPR00379; Ser_estre.
Pfam; PF00126; Peptidase_S9; 1.
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  Jedd G., Mewes W.,
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SEQUENCE 841 AA
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RESULT 3 Q7MU18 RESULT 4 Q728W6

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Pubmed=15077118; DOI=10.1038/nbt959; Pubmed=15077118; DOI=10.1038/nbt959; Pubmed=15077118; DOI=10.1038/nbt959; Peidelberg J.F., Seshadri R., Haveman S.A., Hemme C.L., Paulsen I.T., Rolonay J.F., Eisen J.A., Ward N.L., Methe B.A., Erinkac L.M., Daugherty S.C., DeBoy R.T., Dodson R.J., Durkin A.S., Madupu R., Nelson W.C., Sullivan S.A., Fouts D.E., Haft D.H., Selengut J., Dimitrov G., Hance M., Tran K., Khouri H.M., Gill J., Utterback T.R., Feldblyum T.V., Wall J.D., Voordouw G., Fraser C.M.; Peldblyum T.V., Wall J.D., Voordouw G., Fraser C.M.; Designome sequence of the anaerobic, sulfate-reducing bacterium Desulfovibrio vulgaris Hildenborough.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Sequence, localization and characteristics of the replicator region of the symbiotic plasmid of Rhizobium etli.";
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                                                                                                                                                                                                                                                                                                                       Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales;
Desulfovibrionaceae; Desulfovibrio.
                                                                                                                                                                                                                   Desulfovibrio vulgaris (strain Hildenborough / ATCC 29579 / NCIMB
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Ramirez-Romero M.A., Bustos P., Girard L., Rodriguez O.,
Cevallos M.A., Davila G.;
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TIGR; DVU2486; ...
GO; GO:0008009; Fiv-acetyltransferase activity; IEA.
GO; GO:0016740; Fitransferase activity; IEA.
InterPro; IPR000182; GCN5acetyl trans.
Pfam; PR00583; Acetyltransf 1; 1.
Complete protecome; Transferase.
SEQUENCE 181 AA; 20659 MW; 71621FB7EDC147D9 CRC6.
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Last annotation update)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update) 05-JUL-2004 (TrEMBLrel. 27, Last annotation update) Acetyltransferase, GNAT family.
OrderedLousNames=DVU2486;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
Gallus.
                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                    Gonzalez V., Bustos P., Medrano-Soto A., Ramirez-Romero M.A., Romero D., Salgado H., Hernandez-Gonzalez I., Hernandez-Celis J.C., Quintero V., Girard L.L., Rodriguez O., Flores M., Cevallos M.A., Collado-Vides J., Davilla G.; Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Proactivator polypeptide precursor [Contains: Saposin A; Saposin B;
Saposin C; Saposin D].
                                      MEDLINE=22309397; PubMed=12421308;
Quintero V., Cevallos M.A., Davila G.;
"A site-specific recombinase (RinQ) is required to exert
incompatibility towards the symbiotic plasmid of Rhizobium etli.";
Mol. Microbiol. 46:1023-1032(2002).
                                                                                                              STRAIN=CFN42;
Ramirez M.A., Bustos P., Girard L., Rodriguez O., Cevallos M.A.,
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Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                       Quintero V., Bustos P., Davila G.;
Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; 080928; AAMS4925-1; --
Hypothetical protein; Plasmid.
SEQUENCE 208 AA; 23594 MW; 2DFF473380800744 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
Altman N., Horowitz M.;
Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                  Davila G.;
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A., AND SEQUENCE OF 194-203.
TISSUE=Brain, and Liver;
MEDLINE=98129745; PubMed=9461526;
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 Microbiology 143:2825-2831(1997)
                                                                                                                                                                                                                                                                                                                                                                                                           6; Conservative
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Best Local Similarity
                    SEQUENCE FROM N.A.
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SEQUENCE FROM N.A.
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013035;
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Rattus.
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                                                                                                                                                                                                                                       69.7%; Score 46; DB 1; Length 518; 75.0%; Pred. No. 71;
                                                                                                                                                                                                                                                                    Indels
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Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                           B803000E891C3963 CRC64;
                                                                                                                                (GlcNAc. . .)
(GlcNAc. . .)
(GlcNAc. . .)
                                                                                                                                                                                                                                                                                                                                                                                                                               05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sci. U.S.A. 99:16899-16903(2002).
By similarity.
N-linked (GICNAC.)
E-> D (in Ref. 2).
                                                                                                                                                                              -> T (in Ref. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL, BC061759, AAH61759.1, -
GO, GO:0006764, C:lysosome, IEA.
GO, GO:0006659, P:lybid metabolism, IEA.
GO, GO:0006665, P:sphingolipid metabolism; IEA.
INCEPPO: IPR003119; SapA.
InterPro; IPR003165, SapB.
                                                                                                                                                                                                                                                                                                                                                                                                        553 AA
                                                                                                                                                                                                                                                                      0; Mismatches
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                                                                                                                                                                                                           57601 MW;
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                                                                                                                                                                                                                                                                      Conservative
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   489 CVWGPGYW 496
                                                                                                                                                                             94
486
518 AA;
                                                                                                                                                                                                                                                                                                 1 CYWGCGYW 8
                                                                                                                                                                                                                                                      Best Local Similarity
Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Prostate,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Prostate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prosaposin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=Psap;
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CONFLICT
SEQUENCE
               DISULFID
                                            DISULFID
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   DISULFID
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106 P744
10 06 P744
10 06 P74
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its mee by non-profit institutions as long as its content is in no way modified anothris statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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BEDLINE=29515245, PubMed=8601692;

MOTALES C.R., El-Alfy M., Zhao Q., Igdoura S.A.;

"Expression and tissue distribution of rat sulfated glycoprotein-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Testis;
MEDLINE=96128541; PubMed=8573994;
Morales C.R., E1-Alfy M., Zhao Q., Igdoura S.A.;
Morales C.R., E1-Alfy M., Zhao Q., Igdoura S.A.;
Molecular role of sulfated glycoprotein-1 (SGP-1/prosaposin) in Serfoli cells.";
Histol. Histopathol. 10:1023-1034(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Sertoli cells;
MEDLINE=89000647; PubMed=3048385;
Collard M.W., Sylvester S.R., Tsuruta J.K., Griswold M.D.;
Biosynthesis and molecular cloning of sulfated glycoprotein 1
secreted by rat Sertoli cells: sequence similarity with the 70-
kilodalton precursor to sulfatide/GMI activator.";
Biochemistry 27:4557-4564(1988).
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                                                                                                                                                                                                                                                                                                                                                                                                                        Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SAP RAT STANDARD; PRT; 554 AA. P10960; Q62841; Q64190; Q1-JUL-1989 (Rel. 11, Created) 01-JUL-1989 (Rel. 44, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update) Sulfated glycoprotein 1 precursor (SGP-1) (Prosaposin).
                                                                                                                                                                                                                                                                                                                                                                    553 AA; 61039 MW; 63F3DD5E0C523393 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J. Histochem. Cytochem. 44:327-337(1996).
-!- SUBCELLULAR LOCATION: Extracellular.
-!- SIMILARITY: Contains 2 saposin A-type domains.
-!- SIMILARITY: Contains 4 saposin B-type domains.
                                                                                                                                                                                                                                                                                                                                                                                                                               69.7%; Score 46; DB 2; 75.0%; Pred. No. 75; ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A., AND PARTIAL SEQUENCE
                                                InterPro; IPR0008373; Saposin.
InterPro; IPR0008373; SaposinB.
InterPro; IPR011001; SaposinB.
InterPro; IPR011001; SaposinB.
InterPro; IPR011001; SaposinB.
InterPro; IPR011091; SapA; 2.
Pfam; PF02199; SapB. 1; 3.
ProDom; PD001732; SapB. 20; 1.
SWART; SM00162; SAPA; 2.
SEQUENCE 553 AA; 61039 MW, 63F3DI
SapB_2.
SapB_sub.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Name=Psap; Synonyms=Sgpl;
Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 75.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        524 CVWGPGYW 531
                                  [PR008140;
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01-JUN-2001 (TrEWBLrel. 17, Created)
01-JUN-2001 (TrEWBLrel. 17, Last sequence update)
01-JUN-2004 (TrEWBLrel. 27, Last sequence update)
05-JUL-2004 (TrEWBLrel. 27, Last annotation update)
Hypothetical protein T23K23. 3 Basic pentacysteine 3).
Name=T23K23. 3, Synonyms=BRC3; ORFNames=At1968120;
Arabidopsis thaliana (Mouse-ear cress).
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledna; core eudicots; rosids;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SECUENCE FROM N.A.

PubMed=14731261; DOI=10.1046/j.1365-313X.2003.01971.x;

PubMed=14731261; DOI=10.1046/j.1365-313X.2003.01971.x;

Meister R.J., Williams L.A., Monfared M.M., Gallagher T.L.,

Kraft E.A., Nelson C.G., Gasser C.S.;

"Definition and interactions of a positive regulatory element of the Arabidopsis INNER NO OUTER promoter.";

Plant J. 37:426-438(2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
Lin X., Kaul S., Town C.D., Benito M.-I., Creasy T.H., Haas B.J.,
Wu D., Maiti R., Ronning C.M., Koo H., Fujii C.Y., Utterback T.R.,
Barnstead M.E., Bowman C.L., White O., Nierman W.C., Fraser C.M.;
Submitted (OCT-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-0CT-2000 (TrEMBLrel. 15, Created)
01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
F10B6.5 (TSE21.17) (At1g14680/F10B6_22) (Basic pentacysteine 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 269;
                                                                                                                                                DB 2; Length 93;
                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                     Sasaki T., Matsumoto T., Katayose Y.;
Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AP005644; BAD1478.1; -.
Hypothetical protein.
SEQUENCE 93 AA; 9536 MW; A206432A3764546F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
Town C.D., Kaul S.;
Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30392 MW; 2753AB3AD6063FE8 CRC64;
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                                                                                                                                                Score 45.5; DE
Pred. No. 20;
0; Mismatches
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Pred. No. 48;
0; Mismatches
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EMBL; AC012563; AAG52002.1; -.
EMBL; AY380569; AAR25823.1; -.
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InterPro; IPR010409; DUF1004.
Pfam; PF06217; DUF1004; 1.
Hypothetical protein.
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                                                                                                                                                                    Local Similarity 63.6%;
les 7; Conservative
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Best Local Similarity 77.8
Matches 7; Conservative
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      SEQUENCE FROM N.A.
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Q9LDE2;
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Matches
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Q9LDE2
ID Q9LDE
AC Q9LDE
DT 01-OC
DT 01-OC
DT 05-U
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C 06YY22;
C 06YY22;
T 05-JUL-2004 (TERMELrel. 27, Created)
T 05-JUL-2004 (TERMELrel. 27, Last annotation update)
T 05-JUL-2004 (TERMELrel. 27, Last annotation update)
T 05-JUL-2005 (TERMELrel. 27, Last annotation update)
E Hypothetical protein OSJNBb0056122.26.
N Name-CSJNBb0056122.26.
S Dermatophyta; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; C Eukaryota; Viridiplantae; Streptophyta; Liliopsida; Poales; Poaceae;
C Enhartoideae; Oryzeae; Oryza.

N NCBI_TaxiD=39947;
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                                                                                                              R InterPro; IPR00136; SapB-1.
R InterPro; IPR008138; SapB-1.
R InterPro; IPR008138; SapB-1.
R InterPro; IPR008139; SapB-1.
R InterPro; IPR008139; SapOsin like.
R InterPro; IPR008139; SapOsin like.
R InterPro; IPR008139; SapDsin like.
R Pfam; PF01349; SapB-1; 3.
R Pfam; PF01349; SapB-1; 3.
R Pfam; PF01349; SapB-2; 4.
R RRIWTS; RR01797; SapDSIN.
R ProDom; PD01732; SapB sub; 1.
R ProDom; PD07132; SapB sub; 1.
R DOMAIN 17 554 Sulfated glycoprotein; Repeat; Signal.
I DOMAIN 61 138 SapOsin-like type B 1.
R DOMAIN 193 274 SapOsin-like type B 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Match 69.7%; Score 46; DB 1; Length 554; Local Similarity 75.0%; Pred, No. 75; 2; Indels 6; Conservative 0; Mismatches 2; Indels
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D -> E (in Ref. 2).

I -> V (in Ref. 3).

M -> R (in Ref. 3).

S -> M (in Ref. 3).

DFE3F3A3A0520C6B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                          Sulfated glycoprotein 1.
Saposin-like type A 1.
Saposin-like type B 1.
Saposin-like type B 2.
Saposin-like type B 3.
Saposin-like type B 4.
Saposin-like type B 4.
Saposin-like type B 4.
By similarity.
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N-linked
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EMBL; S81353; AAB36042.2;
EMBL; S81373; AAB36233.2;
                                                                                                     InterPro; IPR003119; SapA
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                   PIR; A28716; A28716.
HSSP; Q92739.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
Chao Q., Brooks S., Buehler E., Johnson-Hopson C., Khan S., Kim C.,
Shinn P., Altafi H., Bei B., Chin C., Chiou J., Choi E., Conn L.,
Conway A., Gonzalez A., Hansen N., Howing B., Koo T., Lam B., Lee J.,
Lenz C., Li J., Liu A., Liu J., Liu S., Mukharsky N., Nguyen M.,
Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A.,
Toriumi M., Vaysberg M., Yu G., Davis R., Federspiel N., Theologis A.,
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Cheuk R., Chen H., Kim C.J., Koesema E., Meyers M.C., Banh J.,
Cheuk R., Chen H., Kim C.J., Koesema E., Meyers M.C., Banh J.,
Bowser L., Carninci P., Dale J.M., Goldsmith A.D., Hayashizaki Y.,
Ishida J., Jiang P.X., Jones T., Kamiya A., Karlin-Neumann G.,
Kawai J., Lam B., Lee J.M., Lin J., Liu S.X., Miranda M., Narusaka M.,
Nguyen M., Onodera C.S., Palm C.J., Pham P.K., Quach H.L., Sakurai T.,
Satou M., Seki M., Southwick A., Tang C.C., Toriumi M., Yamada K.,
Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis A.,
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Chao C., Brooks S., Buehler B., Johnson-Hopson C., Khan S., Kim C.,
Shinn P., Altafi H., Bei B., Chin C., Chiou J., Choi E., Conn L.,
Conway A., Gonzalez A., Hansen N., Howing B., Koo T., Lam B., Lee J.,
Lenz C., Li J., Liu A., Liu J., Liu S., Mukharsky N.,
Naryen M.,
Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A.,
Toriumi M., Vaysberg M., Yu G., Davis R., Federspiel N., Theologis A.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chao Q., Brooks S., Buehler E., Johnson-Hopson C., Khan S., Kim C., Shinn P., Tambunga G., Altafi H., Bei Q., Chin C., Chiou J., Choi E., Conn L., Conway A., Gonzales A., Hansen N., Howng B., Koo T., Lam B., Lee J., Lenz C., Li J., Liu A., Liu K., Liu S., Mukharsky N., Nguyen M., Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaologis A., Ecker J.R., Waysberg M., Yu G., Federspiel N.A., Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
              Arabidopsis thaliana (Mouse-ear cress).
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, rosids,
eurosids II, Brassicales, Brassicaceae, Arabidopsis.
NCBI_TaxID=3702;
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Bowser L., Carninci P., Chang E., Dale J.M., Goldsmith A.D.,
Hayashizaki Y., Ishida J., Jones T., Kamiya A., Karlin-Neumann G.,
Kawai J., Lam B., Lee J.M., Lin J., Miranda M., Narusaka M.,
Nguyen M., Onodera C.S., Palm C.J., Quach H.L., Sakurai T., Satou N
Seki M., Southwick A., Tang C.C., Toriumi M., Wu H.C., Yamada K.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
Name=BPC2; ORFNames=At1g14685;
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                                                                                                        PubMed=14731261; DOI=10.1046/j.1365-313X.2003.01971.x;
Meister R.J., Williams L.A., Monfared M.M., Gallagher T.L.,
Kraft E.A., Nelson C.G., Gasser C.S.;
"Definition and interactions of a positive regulatory element of the
Arabidopsis INNER NO OUTER promoter.";
Plant J. 37:426-438 (2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Viridiplantae, Streptopyta, Embryophyta, Tracheophyta, Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, rosids, eurosids II, Brassicales, Brassicaceae, Arabidopsis.
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Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis A.
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PubMed=14731261; DOI=10.1046/j.1365-313X.2003.01971.x;
Meister R.J., Williams L.A., Monfared M.M., Gallagher T.L.,
Kraft E.A., Nelson C.G., Gasser C.S.;
"Definition and interactions of a positive regulatory element
Arabidopsis INNER NO OUTER promoter.";
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                       Ecker J.R.;
Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                             EMBL, ACO06917; AAF0312.1; -.
EMBL, ACO1657; AAF03172.1; -.
EMBL, AXO80073; AAL24181.1; -.
EMBL; AX090055; AAL24181.1; -.
EMBL; AX090568; AAL25822.1; -.
InterPro; IPR010409; DUP1004.
Pfam; PF06217; DUF1004; 1.
SEQUENCE 279 AA; 31168 MW; BAB996037E04D372 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plant J. 37:426-438(2004).
EMBL; AY38034; AAR28441.1; -.
INTEXPRO; IRROLO409; DUF1004.
Pfam; PF66217; DUF1004; 1.
SEQUENCE 283 AA; 31635 MW; BE69E04695CF20FC CRC64;
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Last sequence update)
Last annotation update)
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(TrEMBLrel. 27, Last sequence update)
(TrEMBLrel. 27, Last annotation update)
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01-WAY-2000 (TrEWBLrel. 13, Created)
01-WAY-2000 (TrEWBLrel. 13, Last sequence update)
05-UUL-2004 (TrEWBLrel. 27, Last annotation update
Hypothetical protein At2g01930 (Expressed protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 45.5; DB
Pred. No. 50;
0; Mismatches
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Pred. No. 50;
0; Mismatches
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Q9SKD0
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Search completed: April 18, 2005, 19:58:36
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                                                                     SEQUENCE FROM N.A.

Yamada K., Liu S.X., Sakano H., Pham P.K., Banh J., Chung M.K.,
Goldsmith A.D., Lee J.M., Quach H.L., Tortuni M., Yu G., Bowser L.,
Carninci P., Chen H., Cheuk R., Hayashizaki Y., Ishida J., Jones T.,
Kamiya A., Karlin-Neumann G., Kawai J., Kim C., Lam B., Lin J.,
Miranda M., Narusaka M., Nguyen M., Palm C.J., Sakurai T., Satou M.,
Seki M., Shinn P., Southwick A., Shinozaki K., Davis R.W., Ecker J.R.
Theologis A.;
Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
      Arabidopsis thaliana (Mouse-ear cress).

Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,

Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, rosids,

eurosids II, Brassicales, Brassicaceae, Arabidopsis.
                                                                                                                                                                               SEQUENCE FROM N.A.
Lin X., Kaul S., Shea T.P., Fujii C.Y., Shen M., VanAken S.E.,
Barnstead M.E., Mason T.M., Bowman C.L., Ronning C.M., Benito M.-I.,
Carrera A.J., Greasy T.H., Buell C.R., Town C.D., Nierman W.C.,
Fraser C.M., Venter J.C.,
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                               Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta, Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, rosids, eurosids II, Brassicales, Brassicaceae, Arabidopsis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=22088475; PubMed=12093376;
Haas B.J., Volfovsky N., Town C.D., Troukhan M., Alexandrov N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 2; Length 283;
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                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
Town C.D., Kaul S.;
Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .1 protein.
283 AA; 31648 MW; BAFBFCBD92262E07 CRC64;
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 45.5; DB
Pred. No. 50;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR010409; DUF1004. Pfam; PF06217; DUF1004; 1. Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68.9%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 77.8
Matches 7; Conservative
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                                         eurosids II; Bra
NCBI_TaxID=3702;
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Duchaud E., Rusniok C., Frangeul L., Buchrieser C., Givaudan A., Taourit S., Boors S., Boursaux-Eude C., Chandler M., Charles J.-F., Dassa E., Derose R., Derose R., Preyssinet G., Gaudriault S., Medigue C., Lanois A., Powell K., Siguier P., Vincent R., Wingate V., Zouine M., Glaser P., Boemare N., Danchin A., Kunst F., "The genome sequence of the entomopathogenic bacterium Photornabdus luminescens."
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01-MAR-2004 (TEEMBLEE]. 26, Last sequence update)
01-MAR-2004 (TEEMBLEE]. 26, Last annotation update)
Probable transport protein Yifk.
Name-yifk, OrderedLocusNames=plu4650,
Photorhabdus luminescens (subsp. laumondii).
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
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EMBL; BX571874; CAE17022.1; -.

GO: GO:0016021; C:integral to membrane; IEA.

GO: GO:0005279; F:amino acid-polyamine transporter activity; IEA.

GO: GO:006865; P:amino acid transport; IEA.
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                                                                                                                             SEQUENCE FROM N.A.

Brover V., Troukhan M., Alexandrov N., Lu Y.-P., Flavell R., Feldmann K., Troukhan M., the EMBL/GenBank/DDBJ databases.
Submitted (WAR-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AY08864; AAM66000.1; -.
InterPro; IFR01049; DPT1004.
Ffam; PF06217; DPT1004; 1.

Hypothetical protein.
SEQUENCE 285 AA; 31887 MW; B97DB307AB1CC504 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2; Length 285;
Feldmann K.A., Flavell R.B., White O., Salzberg S.L.;
Full-length messenger RNA sequences greatly improve genome
annotation.";
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Pred. No. 90;
0; Mismatches 0; Indels
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PROSITE; PS00218; AMINO ACID PERMEASE 1; 1.
Complete proteome; Transmembrane; Transport.
SEQUENCE 463 AA; 50838 MW; 317CD0ADCF4FCF25 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
                                                      annotation.";
Genome Biol. 3:RESEARCH0029-RESEARCH0029(2002)
                                                                                                                                                                                                                                                                                                                                                                                                              68.9%; Score 45.5; I
77.8%; Pred. No. 51;
iive 0; Mismatches
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InterPro; IPR004840; AAc permease.
InterPro; IPR004841; Permease region.
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Best Local Similarity 77.8%,
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
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Job time : 73.2558 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

April 18, 2005, 19:18:17; Search time 82.0465 Seconds (without alignments) 37.711 Million cell updates/sec Run on:

SEQ5 66 Perfect score:

1 cywgcgyw 8 Sequence: Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

2105692 seqs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

•• Database

A Geneseq 16Deco4:\*

1: geneseqp1980s:\*

2: geneseqp2000s:\*

4: geneseqp2001s:\*

geneseqp20028:\* geneseqp2003as:\* geneseqp2003bs:\* geneseqp20048:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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Radiolabeling thiol-containing peptides with fluorine-18.

Claim 14; Page 15; 22pp; English.

	Ade62867 Human Pro Ade62865 Rat Prote Adp12617 Protein e Aag75458 Human col
ADL98013 AAY76816 AAAY76816 AAB57406 AAA010292 ADS42831 ADN17810 ABM62033 AAY42908 AAW384216 AAW38422 AAW38428 AAW38428 AAW38428 AAW38428	ADE62867 ADE62865 ADP12617 AAG75458
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 2 6 4 7

# ALIGNMENTS

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/note= "N-terminal acetylation; optionally has a free or protected thiol group"
                                                                       18F radionuclide; targeting vector; positron emission tomography; F-18; radiolabeling; thiol; fluorine-18.
                                                                                                                                                                                         or
                                                                                                                                                                            /note= "D-form residue; optionally has a free protected thiol group"
                                                                                                                                                       'note= "D-form residue"
                                                                                                                                                                        /note= "D-form residue"
                                                                                                                                                                                                                'note= "D-form residue"
                                                                                                                                                                                                                                 /note= "D-form residue"
                                                        Fluorine-18 (F-18) labeled peptide 2.
                                                                                                          Location/Qualifiers
1
      AAY03715 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                 97US-0057485P.
                                                                                                                                                                                                                                                                                  98WO-US018268.
                                       08-JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                 (IMMU-) IMMUNOMEDICS INC.
                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-228967/19.
                                                                                                                Key
Misc-difference
                                                                                                                                                Misc-difference
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                                                                                                                                                                                                                        Misc-difference
                                                                                                                                                                                                                                                                                                                                 Griffiths GL;
                                                                                                                                                                                                                                                                                 03-SEP-1998;
                                                                                                                                                                                                                                                                                                 03-SEP-1997;
                                                                                                                                                                                                                                                 WO9911590-A1
                                                                                                                                                                                                                                                                 11-MAR-1999.
                                                                                                Synthetic.
                       AAY03715;
AAY03715
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22-JUN-1998;

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The invention relates to a method for incorporating 18F radionuclide into peptide-containing targeting vectors for use in clinical positron compusion to comparably. Radiolabeling thiol-containing peptides with fluorine-18 (F-18) comparies reacting a peptide comprising a free thiol group with a labeling reagent of formula: 18F-(CH2)m-CR1R2-(CH2)n-X, or a fluorinated alkene in which at least one of the two double bonded carbon atoms bears at least one leaving group comprising 1, Br, Cl, azide, tosylate, mesylate, no triflate, n = 0-2; n + m = 0-2; X = 1, Br, Cl, azide, tosylate, mesylate, nosylate, no x=0-2; n + m = 0-2; x = 1, Br, Cl, azide, tosylate, mesylate, nosylate, riflate, H CONH2, COOH, Br, Cl, azide, tosylate, mesylate, nosylate, triflate, H CONH2, COOH, CH sulfonic acid, tertiary amine, quaternary ammonium, alkyl (optionally substituted by CONH2, COOH, OH, sulfonic acid, tertiary amine or quaternary ammonium, cook, CONH2, COOH, OH, Sulfonic acid, tertiary amine or phenyl. The method is used for Radiolabeling peptide-containing targeting vectors such as proteins, antibodeis, antibody fragments and receptortomography. The method is simple and positron emission transpared peptides for use in routine clinical positron emission to mique property of the free thiol groups which are rapidly alkylated at neutral pH and moderate temperature. Sequences AAV9374-316 represent
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunogenic peptide, bi-specific antibody, diagnosis, immune response, diseased tissue identification, therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "D-form residue, modified with free amino acid
group, protected amino acid group, chelating agent or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  examples of F-18 labeled peptides used in the method of detecting a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity 100.0%; Score 66; DB 2; Length 8; Similarity 100.0%; Pred. No. 1.8e+06; 8; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunogenic peptide for bi-specific antibody recognition.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAY76817 standard; peptide; 8 AA.
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Best Local Similarity
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This sequence represents an immunogenic peptide for a bi-specific antibody. The invention relates to a method of treating or identifying diseased tissues in a patient comprising administering a bi-specific antibody. The invention at at least 1 arm (B) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds a targeted tissue and at least 1 arm (B) that specifically binds at argetable conjugate. The methods and bi-specific antibodies and therapy. It is advantageous to raise bi-specific antibodies against a targetable conjugate that is capable of carrying at least 1 diagnostic or therapeutic agent. The characteristics of the chelator, metal chelate complex, therapeutic agent or diagnostic and be varied to accommodate differing applications without raising new bi-specific antibodies for each new applications without raising new bi-specific contions the sufficient immune responses and also for rapid in vivo clearance when used within the bi-specific antibody targeting method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              peptide; multi-specific antibody; polymer conjugate; tumour; photodynamic therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                     Bi-specific antibodies that bind specific target tissue and targeted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 100.0%; Score 66; DB 3; Length 8; Similarity 100.0%; Pred. No. 1.8e+06; 8; Conservative 0; Mismatches 0; Indels
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                                                                                          ಕ
                                                                                         Mcbride WJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'note= "D-form residue"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "D-form residue"
                                                                                         Leung S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                    Claim 22; Page 61; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADG94005 standard; peptide; 8 AA.
            98US-0090142P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-MAR-2004 (first entry)
                                                                                      Griffiths GL,
                                                            (IMMU-) IMMUNOMEDICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    residue"
                                                                                                                        WPI; 2000-160561/14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               α
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunogenic peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Misc-difference
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Key
Modified-site
                           14-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytostatic;
                                                                                                                                                                       conjugates
                                                                                          Hansen HJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADG94005;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADG94005
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US2003026764-A1

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/note= "Optionally Cysteinyl; if Cys the residue is

methylated; N-terminal acetylated."

'note= "D form residue" /note= "D form residue"

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Treating cancer and metabolic diseases by administering a multi-specific antibody having a targeting arm that binds to an antigen and a capture arm that binds to a polymer conjugate comprising a therapeutic agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a method of diagnosing or treating a disease or
                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 16; 24pp; English.
                                                                                                                                                                                                                                                                                                     Griffiths GL, Goldenberg DM,
                                                                                                                                                                                    09-JUN-2003; 2003US-00456580.
                                                                                                                                                                                                                    31-JUL-2001; 2001US-0308605P.
                                                                                                                                                                                                                                                                     (IMMU-) IMMUNOMEDICS INC.
                                                                                                                                                                                                                                                                                                                                          WPI; 2004-313738/29
                                   Misc-difference
                                                                  Misc-difference
                                                                                                                   US2004043030-A1
The invention relates to targeting an agent towards a target site in a tissue, comprising administering to the tissue, a multi-specific antibody or its fragment, comprising a targeting arm that binds to an antigen of the target site and a capture arm that binds to a polymer conjugate, and administering a polymer conjugate that binds to the capture arm, the conjugate has a polymer conjugate that binds to the capture arm, the conjugate has a polymer conjugate to the agent such as therapeutic agent, a peptide, an enzyme and a labelled ligand. Also included is a kit useful for targeting a target site within a tissue in a subject or tissue fragment and a polymer conjugate. The method is used for targeting an analysous second is used for targeting an a polymer conjugate. The method is used for targeting and a polymer conjugate. The method is used for therapeutic or diagnostic purposes and further in photodynamic therapy. The present sequence is an immunogenic peptide used in the method of the invention.
                                                                                                                                                                                                                Targeting an agent towards a target site in a tissue, by administering in a tissue, a multi-specific antibody or its fragment and a polymer conjugate that binds to the capture arm of the multi-specific antibody.
                                                                                                                                                                                                                                                                                     Disclosure; Page 14; 19pp; English
                                             31-JUL-2002; 2002US-00209592
                                                                               31-JUL-2001; 2001US-0308605P.
                                                                                                              (IMMU-) IMMUNOMEDICS INC
                                                                                                                                                                                 WPI; 2003-801085/75.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 8 AA;
                                                                                                                                               Griffiths GL;
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Hansen HJ;

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C The Invention relates to a method of diagnosing or treating a disease or disorder. The method involves administering to a tissue a multi-specific antibody (1) or antibody fragment, comprising a targeting arm that binds to antibody (1) or antibody fragment, comprising a paragrating to the target site, and a capture arm that binds to an unique on the target site, and a capture arm that binds to a polymer conjugate to the capture arm, the polymer conjugate comprising a polymer conjugated to a diagnostic or therapeutic agent. Also included is a polymer conjugated to a diagnostic or therapeutic agent. Also included is a method for photodynamic diagnosis or treatment of a disease or disorder. The method is useful for diagnosing or treating a disease or disorder chosen from construction or treating a disease or disorder chosen from construction or treating a construction of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     photodynamic diagnosis; cancer; tumour; cardiovascular lesion;
inflammatory disease; neurodegenerative disease; metabolic disease;
infectious disease; B-cell malignancy; Alzheimer's disease; amyloidosis;
autoimmune disease; bacterial infection; fungal infection;
                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                          100.0%; Score 66; DB 7; Length 8;
100.0%; Pred. No. 1.8e+06; wiematches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  carcinoembryonic antigen-expressing tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      autoimmune disease; bacterial infecti
parasitic infection; viral infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
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8 셤

Best Loc Matches

1 CYWGCGYW 8

Peptide hapten #2.

20-MAY-2004

ADL98014;

RESULT 4 ADL9801 pemphigus vulgaris, Wegener's granulomatosis, membranous nephropathy, amyotrophic lateral sclerosis, tabes dorsalis, giant cell aretritis/polymyalgia, pernicious annemia, rapidly progressive glomerulonephritis, or fibrosing alveolitis. The infectious disease is

/note= "Optionally Cysteinyl; if Cys the residue is methylated; N-terminal acetylated."

'note= "D form residue' 'note= "D form residue'

Misc-difference Misc-difference

Modified-site

Modified-site

Synthetic.

consistent trum, accusted by a fungus chosen from Microsporum, Trichophyton, Epidermophyton, Sporothrix schenckii, Cyrptococcus neoformans, Coccidioides immitis, Histoplasma capsulatum, Blastomyces dermatitidis, and Candida albicans. The infectious disease is caused by a virus chosen from HIV, herpes virus, cytomegalovirus, rabies virus, influenza virus, hepapatitis B virus, Sendai virus, feline leukemia virus, Reo virus, polio virus, human serum parvo-like virus, simian virus 40, respiratory syncytial virus, mouse mammary tunnour virus 40, respiratory syncytial virus, mouse mammary tunnour virus, Varicella-Zoster virus, pengue virus, rubella virus, measles virus, adenovirus, human T-cell leukemia virus, mouse virus, munge virus, vesicular stomatitis virus, Sindbis virus, lymphocytic choriomeningitis virus, sindbis virus, lymphocytic choriomeningitis virus, sindbis virus, lymphocytic choriomeningitis, virus, and blue tongue virus. The infectious disease is caused by a bacterium chosen from Bacillus anthracis, Stepherichia coli, Neisseria gonorrhoeae, Neisseria meningitidis, Pneumococcus, Haemophilus influenzae B, Treponema pallidum, Lyme disease spirochetes, Pseudomonae teruginosa, Mycobacterium leprae , Brucella abortus , Mycobacterium alengama , The infectious disease is caused by a condition process. ô gondii, Trypanosoma rangeli, Trypanosoma cruzi, Trypanosoma rhodeslensei, Trypanosoma brucei, Schistosoma mansoni, Schistosoma pransoni, Schistosoma pansoni, Schistosoma pansoni, Schistosoma pansoni, Schistosoma pansoni, Schistosoma panana tropica, Trichinella spiralis, Onchocerca volvulus, Theileria parva, Taenia hydatigana, Taenia sovis, Taenia saqinata, Echinococcus granulosus, and Mesocestoides corti. The infectious disease is caused by a mycoplasma chosen from mycoplasma arthritidis, M. hyorhinis, M. orale, M. arginini, Acholeplasma laidlawii, M. salivarum and M. pneumoniae. The expressing tumour or a CD20-expressing malignancy. The present sequence represents a peptide used in the method of the invention. Human; frameshift mutant; T cell response; tumour; treatment; cancer; Gaps Saeterdal I; ; 0 Query Match

100.0%; Score 66; DB 8; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 8; Conservative 0; Mismatches 0; Indels Moller M, Gjertsen MK, Telomerase associated protein TP-1 mutant peptide 6. AAY66023 standard; peptide; 54 AA. 98NO-00002097 99WO-NO000143 Eriksen JA, 10-FEB-2000 (first entry) (NHYD ) NORSK HYDRO AS. WPI; 2000-039064/03 1 CYWGCGYW 1 CYWGCGYW Sequence 8 AA; Gaudernack G, Homo sapiens. Synthetic. 03-MAY-1999; 08-MAY-1998; WO9958552-A2 18-NOV-1999 AAY66023; mutein. RESULT 5 셤 ò

frameshift mutation in a gene from a cancer cell. The peptides are characterised in that they: (i) are at least 8 amino acids long and a fragment of a mutant protein arising from a frameshift mutation in a gene of a cancer cell; (ii) consist of at least one amino acid of the mutant consist of at least one amino acid of the mutant carboxyl terminus of the normal part of the protein acid from the carboxyl terminus of the mutant part of the protein as equence preceding the amino terminus of the mutant part of the protein as determined by a new stop codon generated by the frameshift mutation; and (iv) induce, either in their full lengths or after processing by an antique presenting cell (APC), T cell responses. The genes that the carboxyl are characterised as susceptible to frameshift mutation by having a mono nucleoside base repeat sequence of at least 5 considers, or a di-nucleoside base repeat sequence of at least 5 considers, or a di-nucleoside base repeat sequence of at least 5 considers or a least 6 di-nucleoside base repeat sequence of at least 5 considers or a least 5 considers or a least 6 di-nucleoside base repeat sequence of a least 5 considers or a least 6 di-nucleoside base repeat sequence 6 di-nucleoside base repeat 8 considers or 8 c ö nucleoside base units. The peptides are created by the addition or deletion of 1 or 2 nucleoside base residues from the repeat sequence. The novel peptides can elicit T cell responses and toxicity against tumours and cancer cells carrying genes with frameshift mutations. The novel peptides and DNA sequences can be used for the preparation of a composition for the treatment or prophylaxis of cancer AAY65684-Y66142 are fragments of mutant proteins arising from a antiulcer; osteopathic; immunosuppressive; antiinflammatory; cytostatic; ulcers; osteoporosis; autoimmune disease; cancer; molecular weight marker; food supplement; antiparkinsonian; nootropic; neuroprotective; antianaemic; anticoagulant; thrombolytic; vulnerary; Human, diagnostic, drug screening, forensics, gene mapping, biodiversity assessment, Parkinson's disease, Alzheimer's disease, neurodegenerative diseases, anaemia, platelet disorder, wound, burns, Gaps S New peptides derived from genes with frameshift mutations, used develop products for the treatment and prophylaxis of cancers. Human novel contig-encoded polypeptide sequence, SEQ ID NO:3192. ö Weng G; Score 48; DB 3; Length 54; Pred. No. 32; Wang J, Wang Z, Tang TY, Zhang J, Ren F, Xue AJ, Zhao QA, Zhou P, Ghosh M, Wang D, Ma Y, Asundi V, Haley-Vicente D, Drmanac RT; 0; Mismatches ADC33110 standard; protein; 249 AA. Claim 13; Page 36; 166pp; English. 24-SEP-2002; 2002WO-US030474. 72.7%; 24-SEP-2001; 2001US-0324631P. 18-DEC-2003 (first entry) 6; Conservative 1 CYWGCGYW 8 Local Similarity (HYSE-) HYSEQ INC. WO2003029271-A2 Sequence 54 AA; Homo sapiens. gene therapy 10-APR-2003. ADC33110; Query Match Matches RESULT 6 ADC33110 ò 셤

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The invention relates to 971 novel human cDNA sequences (ADC29919-ADC30899) and the polypeptides they encode (ADC30890-ADC31860). The christon also relates to nucleic acid sequences over 99% identical with the novel human cDNAs. The invention and additionally encompasses expression vectors and host cells comprising a nucleic acid of the invention; the recombinant production of a polypeptide of the invention; an antibody against a polypeptide of the invention; and methods of detecting polymucleotides or polypeptides of the invention; and methods of olymucleotides or polypeptides of the invention; and methods of detecting or ameliorating a englound which binds to a polypeptide of the invention. The invention further discloses methods of powerhing, treating or ameliorating a medical condition, kits comprising polymucleotide probes and/or monoclohal antibodies for carrying out the methods of the invention compared on activity of the polymucleotide and/or polypeptide; and 767 contig sequences corresponding to the cDNA sequences of the invention corresponding to the cDNA sequences of the invention are useful in diagnostics, drug screening, forensics, gene mapping, in the clantification of mutations responsible for genetic disorders or other traits, for assessing biodiversity, and in producing many other types of disease and other neurodegenerative diseases, anaemia, platelet cancer. The nucleic acids may also be used as hybridisation probes or primers, and in the recombinant production of a process. They are also useful in generating antibodies, as molecular weight markers, and as food supplements. The present sequence represents a human contigence of the present sequence represents a human contigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                  New polynucleotide and polypeptide useful for diagnosing, preventing or treating conditions such as neurodegenerative diseases, anemias, platelet disorders; wounds, burns, ulcers, osteoporosis, autoimmune diseases or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tripeptidyl-peptidase; amidolytic activity; periodontal disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          72.7%; Score 48; DB 7; Length 249; 100.0%; Pred. No. 1.1e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H2 homologue of prolyl-tripeptidyl peptidase DPP.
                                                                                                                                                                                      Example 2; SEQ ID NO 3192; 1185pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB18511 standard; protein; 841 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gingivitis; periodontitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Porphyromonas gingivalis.
2003-371981/35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           231 CYWGCG 236
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 249 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200052147-A2
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The present sequence represents a H2 homologue of a prolyl tripeptidyl-peptidase (designated DPP) from Porphyromonas gingivalis. The prolyl tripeptidase has an amidolytic activity, and cleaves a peptide bond in a target polypeptide having at least 4 amino acids. This bond is between a proline and an amino acid attached to the alpha-carboxyl group end of the proline. The polypeptide is useful for identifying inhibitors. These inhibitors are then useful for reducing the growth of bacterium or for protecting an animal from a periodontal disease such as gingivitis and periodontitis caused by Porphyromonas gingivalis
                                                                                                                                                                                                                 Prolyl tripeptidyl-peptidase, active analog, fragment or variant useful for identifying its inhibitor which is useful for protecting an animal from a periodontal disease such as gingivitis and periodontitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Muscular, Muscular, Gene Therapy, Antidiabetic; Anorectic; Myostatin; myostatin-binding peptide; growth/differentiation factor 8; GDF-8; skeletal muscular emass; muscular dystrophy; amyotrophic lateral sclerosis; congestive obstructive pulmonary diseaschronic heart failure; cancer; AIDS; renal failure; uremia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          obesity;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rheumatoid arthritis; age-related sarcopenia; muscle-wasting; spinal chord injury; stroke; bone fracture; aging; diabetes; chyperglycaemia; bone loss; osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     71.2%; Score 47; DB 3; Length 841; 85.7%; Pred. No. 4.2e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Myostatin binding peptide, Myostatin-TN8-23, SEQ ID 33.
                                                                 GEORGIA RES FOUND INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADQ11552 standard; peptide; 14 AA.
                                                                                                                                                 Banbula A;
                                                                                                                                                                                                                                                                                    Claim 22; Fig 6; 58pp; English.
03-MAR-2000; 2000WO-US005551
                                99US-0123148P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6; Conservative
                                                                                                                                                 Fravis J, Potempa J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      719 YWGSGYW 725
                                                                                                                                                                                   WPI; 2000-594181/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 YWGCGYW 8
                                                                                               (POTE/) POTEMPA J. (BANB/) BANBULA A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (AMGE-) AMGEN INC.
                                                                                   TRAVIS J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 841 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004058988-A2.
                                05-MAR-1999;
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                                                                 (UYGE-)
(TRAV/)
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Tue Apr 19 06:58:40 2005

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Unidentified
                                           07-OCT-2004
                                                             15-JUL-2004
                                         ADQ11655;
                                     RESULT 9
ADQ11655
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The present invention relates to novel binding agents comprising at least one peptide capable of binding myostatin and inhibiting its activity. In one embodiment, the binding agent comprises at least one myostatinbinding peptide attached directly or indirectly to at least one vehicle such as a polymer or an Fc domain. Myostatin (also known as growth/differentiation factor 8, GBF-8) is a transforming growth-factorbeta (Errorbeta) family member known to be involved in regulation of skeletal muscle mass. The binding agents increase lean muscle mass when administered to animals and decrease fat to muscle ratios. The binding agents increase lean muscle mass when administered to animals and decrease fat to muscle ratios. The binding is skeletal muscle are useful for treating muscle-wasting disease, e.g. muscular dystrophy, amyotrophic lateral sclerosis, congestive obstructive pulmonary disease, chronic heart failure, cancer, AIDS, renal failure, to prolonged bedrest, spinal chord injury, stroke, bone fracture, or aging, and myosin-related metabolic discorder, e.g. diabetes, obseity, hyperglycamia, bone loss, or osteoporosis. The present sequence is one New binding agent which inhibits myostatin, useful for treating muscular dystrophy, amyotrophic lateral sclerosis, congestive obstructive pulmonary disease, stroke, aging, diabetes, obesity, osteoporosis Example 1; SEQ ID NO 33; 287pp; English. such myostatin-binding peptide. Sequence 14 AA;

69.7%; Query Match Best Local Similarity 71.4 Matches 5; Conservative 2 YWGCGYW 8

Gaps ö Myostatin binding peptide, Myostatin-2xTN8-23 kc, SEQ ID 136. Score 46; DB 8; Length 14; Pred. No. 19; 1; Mismatches 1; Indels ADQ11655 standard; peptide; 50 AA. (first entry) : | | | | | | HWACGYW 7

Muscular; Muscular; Gene Therapy; Antidiabetic; Anorectic; Myostatin; myostatin-binding peptide; growth/differentiation factor 8; GDP-8; skeletal muscle mass; muscle-wasting disease; muscular dystrophy; amyotrophic lateral sclerosis; congestive obstructive pulmonary disease; chronic heart failure; cancer; AIDS; renal failure; uremia; theumatoid arthritis; age-related sarcopenia; muscle-wasting; spinal chord injury; stroke; bone fracture; aging; diabetes; obesity; hyperglycaemia; bone loss; osteoporosis.

19-DEC-2003; 2003WO-US040781 20-DEC-2002; 2002US-0435923P WO2004058988-A2

Min H, Boone TC; (AMGE-) AMGEN INC. Han H,

WPI; 2004-525896/50.

New binding agent which inhibits myostatin, useful for treating muscular

dystrophy, amyotrophic lateral sclerosis, congestive obstructive pulmonary disease, stroke, aging, diabetes, obesity, osteoporosis. Example 1; SEQ ID NO 136; 287pp; English

The present invention relates to novel binding agents comprising at least one peptide capable of binding myostatin and inhibiting its activity. In one embodiment, the binding agent comprises at least one myostatin-binding peptide attached directly or indirectly to at least one vehicle such, as a polymer or an Fc domain. Myostatin (also known as growth/differentiation factor 8, GDF-8) is a transforming growth factor-beta family member known to be involved in regulation of skeletal muscle mass. The binding agents increase lean muscle mass when administered to animals and decrease fat to muscle ratios. The binding agents are useful for treating muscle-wasting disease, e.g. muscular dystrophy, amyotrophic lateral sclerosis, congestive obstructive pulmonary disease, chronic heart failure, cancer, AIDS, renal failure, uremia, rheumatoid arthritis, age-related sarcopenia, muscle-wasting due to prolonged bedrest, spinal chord injury, stroke, bone fracture, or aging, and myoshir-related metabolic disorder, e.g. diabetes, obesity, hyperglycaemia, bone loss, or osteoporosis. The present sequence is one such myostatin-binding peptide. 

Gaps ö Score 46; DB 8; Length 50; Pred. No. 55; 1; Mismatches 1; Indels Similarity 71.4%; 5; Conservative Query Match Best Local Similarity Matches 5; Conserv Sequence 50 AA;

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1 HWACGYW

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ABU33201 standard; protein; 265 AA.

RESULT 10 ABU33201 ABU33201;

Antisense; prokaryotic essential gene; cell proliferation; drug design. Protein encoded by Prokaryotic essential gene #18728 19-JUN-2003 (first entry) Legionella pneumophila.

06-SEP-2001; 2001US-00948993. 25-OCT-2001; 2001US-0342923P. 08-FEB-2002; 2002US-00072851. 21-MAR-2002; 2002WO-US009107. 21-MAR-2001; 2001US-00815242. 08-FEB-2002; 2002US-00072851 06-MAR-2002; 2002US-0362699P (ELIT-) ELITRA PHARM INC. WO200277183-A2. 03-OCT-2002. 

New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs. Zyskind JW; Xu HH; Ohlsen KL, Forsyth RA, Haselbeck R, Yamamoto R, Malone C, Carr GJ, Zamudio C, Trawick JD, 2003-029926/02. N-PSDB; ACA37071 Wang L, Wall D,

Claim 25; SEQ ID NO 61125; 1766pp; English

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The invention relates to an isolated mucleic acid comprising any one of the 6213 antisense sequences given in the specification where expression of the mucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a proincteration of a cell. Also included are:

(2) the 6213 antisense sequences given in the specification where expression is inhibited by the antisense nucleic acid; (2) a host cell containing the vector; (3) an isolated comprising the polypeptide by the antisense nucleic acid; (4) an antibody capable of specifically binding the polypeptide, (6) inhibiting cellular complements on the activity of a gene in an operon required for proliferation or the activity of a gene in an operon required for the gene product or that has an activity against a biological pathway crequired for proliferation, or that inhibits cellular proliferation; (8) identifying a gene required for cellular proliferation or the biological companies and sense or its gene product is sorbiferation. CC pathway in which a proliferation required gene or the gene companies acts; (9) manufacturing an antibiotic; (10) profiling a compound that inhibits spouliferation of an organism; or that inhibits erains in which the gene compound that inhibits acts; (1) identifying proteins or screening the target of a compound that inhibits the confounce or collection of the which each of the strains is present in a culture or collection of the strains; or (13) identifying the target of a compound that inhibits the collection of the collection of an organism. The antisense nucleic acids are useful for dentifying proteins or screening for homologous nucleic acids required for cellular proverses or the confounce or collection of the collection 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             drug discovery programs, or for screening homologous nucleic acids required for proliferation in cells other than S. aureus, S. typhimurium, K. pneumoniae or P. aeruginosa. The present sequence is encoded by one of the target prokaryotic essential genes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAG40353 standard; protein; 233 AA.
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99US-0126264P.
99US-0126785P.
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28-MAY-1999
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RR 19-JUL-1999; 99US-0144333P.

RR 20-JUL-1999; 99US-01444333P.

RR 20-JUL-1999; 99US-01444334P.

RR 21-JUL-1999; 99US-01444334P.

RR 21-JUL-1999; 99US-0144532P.

RR 21-JUL-1999; 99US-014508P.

RR 22-JUL-1999; 99US-014531P.

RR 22-JUL-1999; 99US-014932P.

RR 22-JUL-1999; 99US-015130P.

RR 22-REP-1999; 99US-015130P.

RR 23-REP-1999; 99US-015130P.

RR 23-REP-1999; 99US-015313P.

RR 23-REP-1999; 99US-01
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Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
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Pred. No. 2.3e+02;
0; Mismatches 1; Indels
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                               990S-0159331P.
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Best Local Similarity 77.6
Matches 7; Conservative
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Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
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14-MAY-1999;
18-MAY-1999;
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28-APR-1999;
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Gaps
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Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels
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28-0CT-1999;
28-0CT-1999;
28-0CT-1999;
22-OCT-1999
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AAG40352
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Job time: 90.0465 secs ,
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

April 18, 2005, 19:52:14; Search time 58.6047 Seconds (without alignments) 45.371 Million cell updates/sec Run on:

Perfect score:

1 cywgcgyw 8 Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1421835 seqs, 332370683 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Description	Sequence 340, App	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence
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Score	48	46	46	46	46	45.5	45.5	45.5	45	45	44	42	42
Result No.	٦	7	E)	4	2	9	7	80	σ	10	11	12	13

Sequence 2, Appli Sequence 308, App Sequence 44928, A Sequence 46183, A Sequence 136942, Sequence 132, App Sequence 11, Appl Sequence 23, Appl Sequence 23, Appl Sequence 8, Appli Sequence 161629, Sequence 161629,	Sequence 123, App. Sequence 223183, Sequence 15505, App. Sequence 1940, App. Sequence 13063,	67162 2418, 2, App. 60, App. 60, App. 1207,	4601-1-44
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40,97,890,126,46	192860	12040078	00HUU4U

## ALIGNMENTS

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72.7%; Score 48; DB 17; Length 54; 75.0%; Pred. No. 19; 2; Indels ive 0; Mismatches 2; Indels
                                                                                                  APPLICANT: Gaudernack, Gustav
APPLICANT: Gaudernack, Gustav
APPLICANT: Bricksen, Jon Amund
APPLICANT: Bricksen, Jon Amund
APPLICANT: Giertsen, Marianne Klemp
APPLICANT: Saeterdal, Ingvil
ITILE OF INVENTION: Peptides
FILE REFERENCE: 01702.4015LO
CURRENT APPLICATION NUMBER: US/10/776,224
CURRENT FILING DATE: 2004-02-12
PRIOR APPLICATION NUMBER: US 09/674,973
PRIOR FILING DATE: 2001-06-04
NUMBER OF SEQ ID NOS: 459
SOFTWARE: PatentIn version 3.0
                      ; Sequence 340, Application US/10776224; Publication No. US20050074849A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 72.7
Best Local Similarity 75.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , ORGANISM: Homo sapiens
US-10-776-224-340
JS-10-776-224-340
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LENGTH: 54
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1 CYWGCGYW 8 ò В

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Gaps

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RESULT 2 US-10-742-379-33 ; Sequence 33, Application US/10742379

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RESULT 5
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APPLICANT: Han, Hosung
APPLICANT: Boone, Thomas Charles
TITLE OF INVENTION: BINDING AGENTS WHICH INHIBIT MYOSTATIN
FILE REFRENCE: A-828 (US)
CURRENT APPLICATION NUMBER: US/10/742,379
CURRENT FILING DATE: 2003-12-19
PRIOR APPLICATION NUMBER: US 60/435,923
PRIOR APPLICATION NUMBER: US 60/435,923
SOFTWARE: PatentIn version 3.2
SOFTWARE: PatentIn version 3.2
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           69.7%; Score 46; DB 16; Length 50; 71.4%; Pred. No. 32; ive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 16; Length 14;
                                      APPLICANT: Han, HO
APPLICANT: Han, HO
APPLICANT: Min, Hosung
APPLICANT: Min, Hosung
APPLICANT: Mono, Thomas Charles
TITLE OF INVENTION: BINDING AGENTS WHICH INHIBIT MYOSTATIN
FILE REFERENCE: A-828 (US)
CURRENT FILING DATE: 2003-12-19
PRIOR PRILING DATE: 2003-12-19
PRIOR PILING DATE: 2002-12-20
NUMBER OF SC ID NOS: 634
SOFTWARE: Patentin version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1;
                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Myostatin Binding Peptide US-10-742-379-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: Myostatin Binding Peptide
US-10-742-379-136
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 69.7%; Score 46; DB Best Local Similarity 71.4%; Pred. No. 13; Matches 5; Conservative 1; Mismatches
                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
Publication No. US20040181033A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 71.4
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                SEQ ID NO 33
LENGTH: 14
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Sequence 61125, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari

US-10-282-122A-61125

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Sequence 42031, Application US/10767701
Publication No. US20040172684A1
Sequence 42031, Application US/10767701
Publication No. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
FILE REFERENCE: 38-21(53535)B
CURRENT PILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 42031
LENGTH: 283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6
                                                                                                                                                                                                                  FILE OF INVENTION: IGENITICATION OF ESSENCIAL GENES IN MICROOFGAILISMS
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2000-03-20
PRIOR PILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-05-23
PRIOR PLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR APPLICATION NUMBER: 60/203,335
PRIOR PILING DATE: 2000-05-26
PRIOR PILING DATE: 2000-05-26
PRIOR PILING DATE: 2000-05-26
PRIOR PILING DATE: 2000-05-06
PRIOR PILING DATE: 2000-10-37
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR PILING DATE: 2000-11-27
PRIOR PILING DATE: 2001-02-09
PRIOR PILING DATE: 2001-02-06
                                                                                                                              APPLICANT: Forsyth, R. APPLICANT: Xu, H. TILE OF INVENTION: Identification of Essential Genes in Microorganisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C13148_1.pep
US-10-767-701-42031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 46; DB 15;
Pred. No. 1.1e+02;
2; Mismatches 1
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Pred. No. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Legionella pneumophila
US-10-282-122A-61125
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                                                               Carr, Grant
Yamamoto, Robert
Forsyth, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
Best Local Similarity 62.5
Matches 5; Conservative
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ORGANISM: Sorghum bicolor
                                   John
Wall, Daniel
Trawick, Joh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            65 CFWACGYF 72
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Best Local Similarity
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0; Mismatches

6; Conservative

Matches

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GENERAL INFORMATION:
APPLICANT: Goo, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goodman, Barry S.
APPLICANT: Goldman, Barry S.
APPLICANT: Coldman, Barry S.
APPLICANT: Coldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(5-2052)8
CURRENT APPLICATION NUMBER: US/10/369, 493
                                                                                                                                 APPLICANT: Liu, Jingdong
APPLICANT: Liu, Jingdong
APPLICANT: Liu, Jingdong
APPLICANT: Avou, Yihua
APPLICANT: Screen, Steven E
APPLICANT: Screen, Steven E
APPLICANT: Screen, Jack E
APPLICANT: Tabaska, Jack E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53313)8
CURRENT APPLICATION NUMBER: US/10/425,114
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 69268
LENGTH: 292
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Pred. No. 1.4e+02;
0; Mismatches 1; Indels 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: Clone ID: JC-GMFL02220141E06_FLI.pep
US-10-425-114-69268
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Pred. No. 2.2e+02;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
                                                       ; Sequence 69268, Application US/10425114; Publication No. US20040034888A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 21261, Application US/10369493
; Publication No. US20030233675A1
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US-10-369-493-463
; Sequence 463, Application US/10369493
; Publication No. US20030233675A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 77.8%;
Matches 7; Conservative
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Best Local Similarity 63.6%;
Matches 7; Conservative (
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                                                                                                                                                                  Sequence 190474, Application US/10437963
; Sequence 190474, Application US/10437963
; Sequence 190474, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
        APPLICANT: La Rosa, Thomas J.
        APPLICANT: Cao, Yihua
        APPLICANT: Cao, Yongwei
        APPLICANT: Boukharov, Andrey A.
        APPLICANT: Boukharov, Andrey A.
        APPLICANT: Li, Ping
        ITTLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
        ITTLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
        ITTLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
        CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 214537, Application US/10424599

Sequence 214537, Application US/10424599

Publication No. US2004003107241

GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Evoalic David K
APPLICANT: Cao Yongwel
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILLE REPRENCE: 38-21 (53223) B
CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 214537

LENGTH: 217
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US-10-437-963-190474
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; OTHER INFORMATION: Clone ID: PAT_MRT3847_35754C.1.pep
US-10-424-599-214537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 45.5; DB 16;
Pred. No. 49;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 68.9%;
Best Local Similarity 63.6%;
Matches 7; Conservative
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ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Glycine max
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1 CYWGCGY 7
                                 CKWGCGY 7
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TYPE: PRT

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Sequence 6232, Application US/10106698
Publication No. US20030109690A1
GENERAL INFORMATION:
GENERAL INFORMATION:
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GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL APPLICANTION:
CURRENT REFERENCE: PA005P1
CURRENT PILING DATE: 2002-03-27
PRIOR FILING DATE: 2000-09-28
PRIOR PELICATION NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
PRIOR PELICATION NUMBER: US 60/163,280
PRIOR PELICATION NUMBER: US 60/163,280
PRIOR PELICATION NUMBER: US 60/163,280
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Publication No. US20040131605A1
GENERAL INFORMATION:
APPLICANT: Qin et al.
TITLE OF INVENTION: USING SAID ENZYME AND METHODS FOR PRODUCING AND PURIFYING SAID FILLE REFERENCE: 30610/30011A
CURRENT FILLING DATE: 2003-11-07
PRIOR PLICATION NUMBER: US/10/704,365
CURRENT APPLICATION NUMBER: US/10/704,365
CURRENT APPLICATION NUMBER: US/10/20,908
PRIOR FILLING DATE: 2002-11-07
PRIOR FILLING DATE: 2002-11-07
PRIOR FILLING DATE: 2002-11-07
PRIOR FILLING DATE: 2002-11-10
PRIOR FILLING DATE: 2002-11-10
PRIOR FILLING DATE: 2002-11-10
PRIOR FILLING DATE: 2002-11-10
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement; FILE REFERENCE: 38-21(53223)B; CURRENT APPLICATION NUMBER: 108/10/424,599; CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 228640.
LENGTH: 46
TYPE. no.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   63.6%; Score 42; DB 15; Length 46;
100.0%; Pred. No. 1e+02;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Clone ID: PAT_MRT3847_57517C.1.pep
US-10-424-599-238640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PatentIn Ver. 3.0
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SOFTWARE: Patentin Ver. 3.(
SEQ ID NO 6232
LENGTH: 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
CORGANISM: Homo sapiens
US-10-106-698-6232
                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        111 CYWGC 115
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                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Lovalic, David K. APPLICANT: Kovalic, David K. APPLICANT: Kovalic, David K. APPLICANT: Cao, Yongwei APPLICANT: Cao, Yongwei APPLICANT: Cao, Yongwei APPLICANT: Wi, Wei APPLICANT: Wi, Wei APPLICANT: Barbazuk, Brad APPLICANT: Li, Ping APPLICANT: Li, Ping APPLICANT: Li, Ping APPLICANT: Li, Ping TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement TITLE OF INVENTION: 12015321)B CURRENT PRILICATION NUMBER: US/10/437,963 CURRENT FILING DATE: 2003-05-14
                                                                                                                                                              APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Glann, Barry S.
APPLICANT: Gho, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)8
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 463
LENGTH: 445
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Pred. No. 2.2e+02;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 45; DB 15; Length 445;
Pred. No. 2.2e+02;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_55493C.l.pep
US-10-437-963-155759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 238640, Application US/10424599; Publication No. US20040031072A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 155759, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , ORGANISM: Xenorhabdus nematophilus US-10-369-493-463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        66.7%;
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Best Local Similarity 63.6%;
Matches 7; Conservative (
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APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 62.5
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            275 CFYGCGNW 282
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SEQ ID NO 155759 LENGTH: 304

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## Sequence 308, Application US/10755889
### Sequence 308, Application No. US20040171823A1
### Sequence 308, Application No. US20040171823A1
### Sequence 308, Application No. US20040171823A1
### Sequence 308, Application No. US2004017DES AND POLYPEPTIDES ASSOCIATED WITH THE NF-kB
### TITLE OF INVENTION: PATHWAY
### TITLE OF INVENTION: PATHWAY
### PRICE OF INVENTION: PATHWAY
### TITLE OF INVENTION: PATHWAY
### SPECIAL OF THE 2004-01-13
### PRICE APPLICATION NUMBER: US. 60/440,068
### PRICE PATHON DATE: 2003-01-14
### PRICE PATHON DATE: 2003-01-14
### PRICE PATHON DATE: 2003-05-12
### NUMBER: DATE: 2003-05-12
### NUMBER: PATHON NUMBER: U.S. 60/469,757
### PRICE PATHON DATE: 2003-05-12
### NUMBER: PATHON NUMBER: U.S. 60/469,757
### PRICE PATHON DATE: 2003-05-12
### NUMBER: PATHON NUMBER: U.S. 60/469,757
### TYPE: PATHON NUMBER: U.S. 60/469,757
### ORGANISM: Homo sapiens
### US-10-755-889-308
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Best Local Similarity 85.7%; Pred. No. 6.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels
; PRIOR FILING DATE: 2003-09-09; NUMBER OF SEQ ID NOS: 2; SOFTWARE: Patentin version 3.2; SEQ ID NO 2; LENGTH: 533; TYPE: PRT TYPE: PRT ORGANISM: Homo sapiens US-10-704-365-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                444 YPGCGYW 450
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US-10-755-889-308
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Search completed: April 18, 2005, 20:29:28 Job time : 59.6047 secs

444 YPGCGYW 450

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model
                                            Run on:
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April 18, 2005, 19:38:48; Search time 22.3256 Seconds (without alignments) 26.749 Million cell updates/sec Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 1 сумдсдум 8 Scoring table:

513545 seqs, 74649064 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Database :

Issued Patents AA:\*

(cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*

(cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*

(cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*

(cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:\*

(cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*

(cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*

(cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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US-08-445-586-10 RESULT 2

		de			SOUTHERNIES	
Result	,	Query			;	
. No.	Score	Match	Length	g ;	ΠD	Description
1	48	72.7	54	4	US-09-674-973A-340	Sequence 340, App
8	42	63.6	533	~	US-08-445-586-10	10,
m	42	63.6	533	7	US-08-484-493-13	13,
4	42	63.6	533	Н	US-08-484-494-13	13,
Ŋ	42	63.6	533	~	US-08-345-212-13	13,
9	42	63.6	533	ო	US-09-249-003-13	13,
7	42	63.6	533	4	US-09-685-844-13	13,
80	42	63.6	2972	4	US-08-469-260A-387	Sequence 387, App
6	42	63.6	2972	4	US-08-488-446-387	387
10	42	63.6	2972	4	US-08-467-344A-387	387,
11	42	63.6	2972	4	US-08-424-550B-387	387,
12	41	62.1	63	4	US-09-583-110-4873	4873,
13	41	62.1	71	4	US-09-107-433-4664	4664,
14	40	9.09	523	ч	US-08-100-247-2	2, Apr
15	40	9.09		ч	US-08-483-146A-2	7
16	40	9.09		Н	US-08-232-513A-3	'n
17	40	9.09		Т	US-08-484-594A-2	7
18	40	9.09	523	4	US-09-076-258A-2	7
19	40	9.09		4	US-08-756-031-2	7
20	40	9.09		4	US-09-352-548-1	Sequence 1, Appli
21	40	9.09	524	4	US-09-949-016-6272	6272,
22	40	9.09	535	4	US-09-949-016-8603	
23	39	59.1	12	4	US-09-419-381-12	
24	39	59.1	30	N	US-08-753-829A-9	Sequence 9, Appli
25	39	59.1	346	4	US-09-252-991A-21708	
. 26	39	59.1	394	4	US-09-902-540-15415	154
27	39	59.1	409	ო	US-09-310-363C-4	

Sequence 10, Application US/08445586
Patent No. 5627050
GENERAL INFORMATION:
APPLICANT: Takeshia, Sunao
APPLICANT: Totorimi
APPLICANT: Otawara-Hamamoto, Yoko
APPLICANT: Amamn, Egon
TITLE OF INVENTION: Bone-Related Sulfatase-Like Protein and
TITLE OF INVENTION: Process for its Production
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner

STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTX: USA
ZIP: 2005-3314
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

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30	38.5	χ.	469	.7	US-08-484-126-1	Seguence	, ,
31	38.5	58.3	469	4	US-09-374-909-1	Seguence	'n
32	38.5	58.3	632	4	US-09-315-127-2	Sequence	7
33	38.5	58.3	632	4	US-09-315-127-3	Seguence	'n
. 34	38.5	58.3	665	4	US-09-309-572-14	Sequence	14,
35	38.5	58.3	99	4	US-09-718-096-14	Sequence	14,
36	38.5	58.3	1312	4	US-09-554-572-26	Sequence	
37	38	57.6	28	4	US-09-621-976-4299	Sequence	
38	38		87	4	US-09-621-976-5992	Sequence	
39	38	7	111	4	US-09-730-212C-7	Sequence	
40	38	57.6	164	4	US-09-898-751A-8	Sequence	18, Appli
41	38	~	383	4	-252	Seguence	
42	_	ဖ	22	4	σ	Sequence	
43	37.5	9		4	US-09-252-991A-26841	Seguence	
44	37	56.1	84	4	US-09-599-632-4	Seguence	
45	37	56.1	154	4	US-09-252-991A-18867	Sequence	188
RESULT 1 US-09-674-973A-340 Sequence 340, Applic; Patent No. 6759046 GENERAL INFORMATION: TITLE OF INVENTION: FILE REFERENCE: 266 CURRENT FILING DATE NUMBER OF SEQ ID NO SOFTWARE: PatentIn SEQ ID NO 340 LENGTH: 54 TYPE: PRT CORMINISM: PRT CORMINISM: ORDANISM: ORDANISM: ORDANISM: ORDANISM: ORDANISM: ORDANISM: ORGANISM: ORGANI	LT 1 9-674-973A-340 quence 340, App quence 340	SULT 1  -09-674-973A-340  Sequence 340, Application US/09674973A  Batent No. 6759046  GENERAL INFORMATION: APPLICANT: No. 67590468K Hydro ASA TITLE OF INVENTION: Peptides FILE REFERENCE: 26625-296  CURRENT APPLICATION UNMBER: US/09/674  CURRENT FILING DATE: 2001-06-04  NUMBER OF SEQ ID NOS: 459  SOFTWARE: PATENTING DATE: 2001-06-04  NUMBER OF SEQ ID NOS: 459  LENGTH: 54  TYPE: PAT  ORGANISM: Homo sapiens  -09-674-973A-340	tion US/0967 46sk Hydro A Peptides 5-296 NUMBER: US/0 201-06-04 : 459 ersion 3.0	s/09.	ALIGNMENTS  ULT 1  09-674-973A-340 equence 340, Application US/09674973A arent No. 6759046 ENERAL INFORMATION: APPLICANT: No. 67590468k Hydro ASA APPLICANT: No. 67590466k Hydro ASA TITLE OF INVENTION: Peptides FILE REFERENCE: 26625-296 CURRENT APPLICATION UNBER: US/09/674,973A CURRENT FILING DATE: 2001-06-04 NUMBER OF SEQ ID NOS: 459 SOGTWARR: Patentin version 3.0 LENGTH: 54 TYPE: PRT TYPE: PRT O9-674-973A-340		
Query Match	atch	:	72.78;	36		th 54;	
Best Local Matches		Similarity 75. 6, Conservative	75.0%; vative	.*	Pred. No. 4; 0; Mismatches 2; I	Indels 0;	Gaps
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REGISTRATION NUMBER: 31,346
REPREBRUCK DOCKET NUMBER: 84162
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELERAX: 516-742-4346
TELERAX: 516-742-4366
INFORMATION FOR SEQ ID NO: 13: SEQUENCE CHARACTERISTICS: LENGTH: 533 annino acide
TYPE: annino acide
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LENGTH: 533 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                               ; MOLECULE TYPE: protein US-08-484-493-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         444 YPGCGYW 450
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
. SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,493
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 991,973
FILING DATE: 17-DEC-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Milson, Peter J
APPLICANT: Milson, Peter J
APPLICANT: Morris, Charles P
APPLICANT: Anson, Donald S
APPLICANT: Cochiodoro, Teresa
APPLICANT: Glemente, Peter R
APPLICANT: Clemente, Peter R
APPLICANT: Clemente, Peter R
APPLICANT: Clemente, Peter R
APPLICANT: Hopwood, John J
TITLE OF INVENTION: IDTRONATE 2-SULFATASE
NUMBER OF SEQUENCES: 15
CORRESPONDENCE 3.15
CORRESPONDENCE ADDRESS: ADDRESSEE: Scully, Scott, Murphy & Presser
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: Garden City
STATE: New York
COUNTRY: USA
ZIP: 11530
COMPUTER READBALE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER READBALE FORM:
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/445,586
                                                                                             FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION: 435
PRIOR APPLICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/111,887
FILING DATE: 26-AUG-1993
APPLICATION NUMBER: UP 230030/92
FILING DATE: 28-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UP 324034/92
FILING DATE: 03-DEC-1992
ATORNEY/AGENT INFORMATION:
NAME: FORMAN, DAVIG
FERENCEY/DOCKET NUMBER: 33,694
REFERENCEY/DOCKET NUMBER: 33,694
REFERENCEY/DOCKET NUMBER: 33,694
REFERENCEY/DOCKET NUMBER: 32,694
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-400
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 533 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 13, Application US/08484493
Patent No. 5728381
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 533 anino acids
TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-445-586-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 85.72
France 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  444 YPGCGYW 450
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US-08-484-493-13
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  Length 533;
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/484,494
FILING DATE: 07-JUN-1995
CLASSIFICATION NUMBER: 991,973
FILING DATE: 17-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: DIGIGLO, Frank S
REFERENCE/DOCKET NUMBER: 84162
TELEPHONE: 516-742-4343
TELEPHONE: 516-742-4343
TELEFRAX: 516-742-4366
TELERAX: 516-742-4366
TELERAX: 516-742-4366
TELERAX: 516-742-4366
TELERAX: 516-742-4366
TELERAX: 516-742-4366
TELERAX: 516-742-4366
                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Wilson, Peter J
APPLICANT: Wilson, Peter J
APPLICANT: Morris, Charles P
APPLICANT: Morris, Charles P
APPLICANT: Cochiodoro, Teresa
APPLICANT: Cochiodoro, Teresa
APPLICANT: Clements, Dulie
APPLICANT: Clements, Peter R
APPLICANT: Clements, Dulon J
TITLE OF INVENTION: GLYCOSYLATION VARIANTS OF
TITLE OF INVENTION: IDURONATE 2-SULFATASE
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scully, Scott, Murphy & Presser
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: USA
63.6%; Score 42; DB 1; 185.7%; Pred. No. 1.7e+02; Itive 0; Mismatches 1
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63.6%; Score 42; DB 3; Length 533; 85.7%; Pred. No. 1.7e+02;
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Patent No. 6541254

GENERAL INFORMATION:

APPLICANT Wilson, Peter J

Morris, Charles P
Anson, Donald S

Occhiodoro, Teresa
Blelicki, Julie

Clements, Peter R

Hopwood, John J

TITLE OF INVENTION GLYCOSYLATION VARIANTS OF

IDURONATE 2-SULFATASE
                                            GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Wilson, Peter J
APPLICANT: Morris, Charles P
APPLICANT: Anson, Donald S
APPLICANT: Clements, Charles P
APPLICANT: Clements, Donald S
APPLICANT: Clements, Peter R
APPLICANT: Bielicki, Julie
APPLICANT: Bielicki, Julie
APPLICANT: Hopwood, John J
TITLE OF INVENTION: IDTRONATE 2-SULFATASE
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scully, Scott, Murphy & Presser
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: Wow York
                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 11330
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/249,003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8416Z
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEFXX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/991,973
FILING DATE: 17-DEC-1992
ATTORNEY/ACENT INFORMATION:
NAME: DIGIGILO, Frank S
REGISTRATION NUMBER: 31,346
                      Sequence 13, Application US/09249003
Patent No. 6153188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best_Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  444 YPGCGYW 450
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STRANDEDNESS: si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE
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US-09-685-844-13
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                                                                                                                     Gaps
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Pred. No. 1.7e+02;
0; Mismatches 1; Indels
                                                                  Query Match 63.6%; Score 42; DB 1; Length 533; Best Local Similarity 85.7%; Pred. No. 1.7e+02; Matches 6; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                       Sequence 13, Application US/08345212
; Sequence 13, Application US/08345212
; Patent No. 5392211
; GENERAL INFORMATION:
    APPLICANT: Wilson, Peter J
    APPLICANT: Anson, Donald S
    APPLICANT: Clements, Peter R
    APPLICANT: Clements, Peter R
    APPLICANT: Clements, Peter R
    APPLICANT: Hopwood, John J
    TITLE OF INVENTION: GLYCOSYLATION VARIANTS
    TITLE OF INVENTION: IDURONATE 2-SULFATASE
    NUMBER OF SEQUENCES: 15
    CORRESPONDENCE ADDRESS:
    ADDRESSEE: Scully, Scott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
GURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/345,212
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Scully, Scott, Murphy & Presser STREET: 400 Garden City Plaza CITY: Garden City CITY Blaza CITY: Garden City COUNTR: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
PRIOR APPLICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 991,973
FILING DATE: 17-DEC-1992
ATTORNEY AGENT INFORMATION:
NAME: DiGiglio, Frank S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8416Z
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4346
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 533 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 63.6%;
Best Local Similarity 85.7%;
Matches 6; Conservative (
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MOLECULE TYPE: protein
MOLECULE TYPE: protein
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US-08-484-494-13
                                                                                                                                                                                                                                                                          RESULT 5
US-08-345-212-13
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RESULT 6

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FILING DATE:
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TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scully, Scott, Murphy & Presser
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 63.6%; Score 42; DB 4; I
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 D377/AP6D
                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/685,844
FILING DATE: 10-0ct-2000
CLASSIFTCATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/991,973
ATTORNEY/AGENT INPORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Didiglio, Frank S
REGISTRATION NUMBER: 31,346
REBERENCE/DOCKET NUMBER: 9416Z
TELEPHONE: 516-742-4343
TELEFRAX: 516-742-4363
TELER: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TOPOLOGY: linear; ; MOLECULE TYPE: protein; ; SEQUENCE DESCRIPTION: SEQ ID NO: 13: US-09-685-844-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOHN N. SIMONS
TAMI J. PILOT-MATIAS
GEORGE J. DAWSON
GEORGE G. SCHLANDER
SURESH M. DESAI
THOMAS P. LEARY
ANTHONY SCOTT MURRHOFF
JAMES C. ERKER
SHERI L. BUIJK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 387, Application US/08469260A Patent No. 6451578 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LABORATORIES
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 533 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 60064-3500
COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-469-260A-387
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
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Gaps
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APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: GEORGE J. DAWSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: THOMAS P. LEARY
APPLICANT: ANTHONY SCOTT MUERHOFF
APPLICANT: ANTHONY SCOTT MUERHOFF
APPLICANT: ANTHONY SCOTT MUERHOFF
APPLICANT: SHERI L. BUJK
APPLICANT: SHERI L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,260A
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: ABBOTT LABORATORIES D377/AP6D STREET: 100 ABBOTT PARK ROAD CITY: ABBOTT PARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                       CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550
FILING DATE:
ATTORNEY AGENT INFORMATION:
NAME: POREMBSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REPERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: IL
COUNTRY: USA
ZIP: GOG4-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOAPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550
FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 387, Application US/08488446
Patent No. 6558898
GENERAL INFORMATION:
APPLICANT: JOHN N. SIMONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 708-938-2623
INFORMATION FOR SEQ ID NO: 387:
SEQUENCE CHARACTERISTICS:
LENGTH: 2972 anino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              63.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 62.5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , MOLECULE TYPE: protein US-08-469-260A-387
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SEQUENCE DESCRIPTION: SEQ ID NO: 387:
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US-08-467-344A-387
                                                                                                                                                                                                                                                   RESULT 11
US-08-424-550B-387
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-424-550B-387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JAMES C. ERKER
SHERI L. BULJK
ISA K. MUSHAHWAR
TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
REAGENTS AND METHODS FOR THEIR USE
                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                63.6%; Score 42; DB 4; Length 2972; 62.5%; Pred. No. 7.1e+02; tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA

ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
COMPUTER: DATENTIN Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,344A
FILING DATE: 07-Jun-1995
CLASSIFCATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/424,550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSE: ABBOTT LABORATORIES D377/AP6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: 1L
NAME: POREMBSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 387, Application US/08467344A
Patent No. 658658
GENERAL INFORMATION:
TAMI J. PILOT-MATIAS
GEORGE J. DAWSON
GEORGE G. SCHLAUDER
SURESH M. DESAI
THOMAS P. LEARY
ANTHONY SCOTT MUERHOFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION TELEPHONE: 708-937-6365 TELEPRAK: 708-938-2623 INFORMATION FOR SEQ ID NO: 387:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 2972 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 62.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                             ; MOLECULE TYPE: protein US-08-488-446-387
                                                                                                                                                                                                                                                                                                                                                                                      295 COWGSAYW 302
                                                                                                                                                                                                                                                                                                                                                       1 CYWGCGYW 8
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                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: JOHN N. SIMONS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: GEORGE J. DAWSON
APPLICANT: SURESH M. DESAI
APPLICANT: SURESH M. DESAI
APPLICANT: THOMAS P. LEARY
APPLICANT: THOMAS P. LEARY
APPLICANT: JAMES C. ERKER
APPLICANT: SHERI L. BUJK
APPLICANT: SHERI L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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Score 42; DB 4; Length 2972;
Pred. No. 7.1e+02;
0; Mismatches 3; Indels
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Pred. No. 7.1e+02;
0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA

ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             D377/AP6D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435435
ATTORNEY/AGENT INFORMATION:
NAME: POREMBERI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REPERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION:
TELEPHONE: 708-937-6365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
US-09-583-110-4873
; Sequence 4873, Application US/09583110
                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 387, Application US/08424550B
; Patent No. 6720166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             B: ABBOTT LABORATORIES
100 ABBOTT PARK ROAD
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INFORMATION FOR SEQ ID NO: 387:
SEQUENCE CHARACTERISTICS:
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    63.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match
Best Local Similarity 62.5
Then 5; Conservative
    Query Match
Best Local Similarity 62.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
                                                                                                                                                                                                                                   295 COWGSAYW 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       295 COWGSAYW 302
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                                                                                                                                                              1 CYWGCGYW 8
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3Y: linear
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APPLICANT: JOHN N
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                                                                                                                                                                                                 Length 71;
                                                                                                                                                                                                                                                                                                                                                                                                                         18-08-100-247-2

Sequence 2, Application US/08100247

Sequence 2, Application US/08100247

Sequence 2, Application US/08100247

GENERAL INFORMATION:
APPLICANT: O'BRIEN, JOHN S.
APPLICANT: KISHIMOTO, YASUO
TITLE OF INVENTION: PROSAPOSIN AS A NEUROTROPHIC FACTOR
NUMBER OF SEGUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: KNOBBE, MARTENS, OLSON AND BEAR
STREET: 620 NEWPORT CENTER DRIVE SIXTEENTH FLOOR
CITY: NEWPORT BEACH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/100,247
FILING DATE: 19930730
CLASSIFICATION: S14
ATTORNEY/AGENT INFORMATION:
NAME: Israelsen, Ned A.
REGISTRATION NUMBER: 29,655
REFRENCC/OCKET NUMBER: OBRIEN.002A
TELECOMMUNICATION: INFORMATION:
TELECOMMUNICATION: INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 40; DB 1; Ler
Pred. No. 3.2e+02;
                                                                                                                                                                                                 Query Match 62.1%; Score 41; DB 4;
Best Local Similarity 50.0%; Pred. No. 45;
Matches 4; Conservative 2; Mismatches
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
                                                                                   NAME/KEY: misc feature
LOCATION: (B) LŌCATION 1...71
SEQUENCE DESCRIPTION: SEQ ID NO: 4664:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60.6%;
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 523 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IMMEDIATE SOURCE:
CLONE: PROSAPOSIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              494 CIWGPSYW 501
                                                                                                                                                                                                                                                                                                                                     44 CFWGWSFW 51
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
.Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                              1 CYWGCGYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2
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                                                                                                                                                         US-09-107-433-4664
                                                                   FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-100-247-2
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STATE:
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                                                                   and Amino Acid Sequences Relating to Streptococcus
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Patent No. 6800744

GENERAL INFORMATION

APPLICANT: Lynn A Doucette-Stamm and David Bush

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID

TITLE OF INVENTION: THERAPEUTICS

THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                           APPLICANT: Lynn Doucette-Stamm et al.

TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating t
TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
FILE REFERENCE: PATHO0-07A
CURRENT APPLICATION NUMBER: US/09/583,110
CURRENT PILING DATE: 1098-06-30
PRIOR APPLICATION NUMBER: US 09/107,433
PRIOR FILING DATE: 1998-06-30
PRIOR FILING DATE: 1998-06-30
PRIOR FILING DATE: 1998-05-12
PRIOR FILING DATE: 1998-05-12
PRIOR FILING DATE: 1998-05-13
PRIOR FILING DATE: 1998-05-13
PRIOR FILING DATE: 1998-05-13
SRO ID NOS: 5322
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Pred. No. 40;
2; Mismatches · 2; Indels
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ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER: CUDKNOWN>
OPERATING SYSTEM: «UNKNOWN>
SOFTWARE: «UNKNOWN>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILLING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085131
FILLING DATE: MAY 12, 1998
FILLING DATE: July 2, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-4873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 71 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4664:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 5206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 50.0%;
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            36 CFWGWSFW 43
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US-09-107-433-4664
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Query Match 60.6%; Score 40; DB 1; Length 523; Best Local Similarity 62.5%; Pred. No. 3.2e+02; Matches 5; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 2: SEQUENCE CHARACTERISTICS: LENGTH: 523 amino acids TYPE: amino acid STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: peptide MOLECULE TYPE: N-terminal
                                                                                                                                                                                                                                                                                                              US-08-483-146A-2
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494 CIWGPSYW 501 1 CYWGCGYW 8 ò

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Gaps ö

Search completed: April 18, 2005, 20:00:40 Job time: 23.3256 secs

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